



670	27364	92836	89428	61208	74982	36498	32764	81276	81276
986	40932	70987	32123	49817	26346	81287	65491	87364	81276
721	75654	55656	12737	72727	72727	91918	63473	67867	76543
723	87629	37677	32612	53498	71296	28756	18276	98716	87654
7269	76329	74698	76857	98670	27601	56701	57601	73648	15432
591	87364	87265	96710	27630	12673	84769	28743	98127	54321
658	63298	75698	27465	87326	49876	28376	81273	98615	62109
667	87432	74328	78674	29867	32867	67867	86786	43286	43286
667	68768	68763	34234	34238	68768	62342	48273	48768	23456
936	98432	32432	86743	43286	43286	43286	43286	43286	43286
743	86743	86743	39867	32867	86743	43286	43286	43243	86743
741	86743	86743	86743	86743	86743	86743	86743	86743	43521
543	98798	98754	98754	98754	98754	29867	67543	67986	86743
1076	87698	69876	87698	69876	87612	12341	34867	86798	63210
867	43298	65656	56756	56123	32143	14321	32143	14321	32143
441	32787	58765	76587	58765	76587	58765	76587	58756	76587
75474	86543	54365	36543	54365	36543	54365	36543	54365	36543

Numbers & Oddities a.k.a. The Spooks Newsletter

Edition #207, December 2014

Editor: Ary Boender email: udxf@udxf.nl

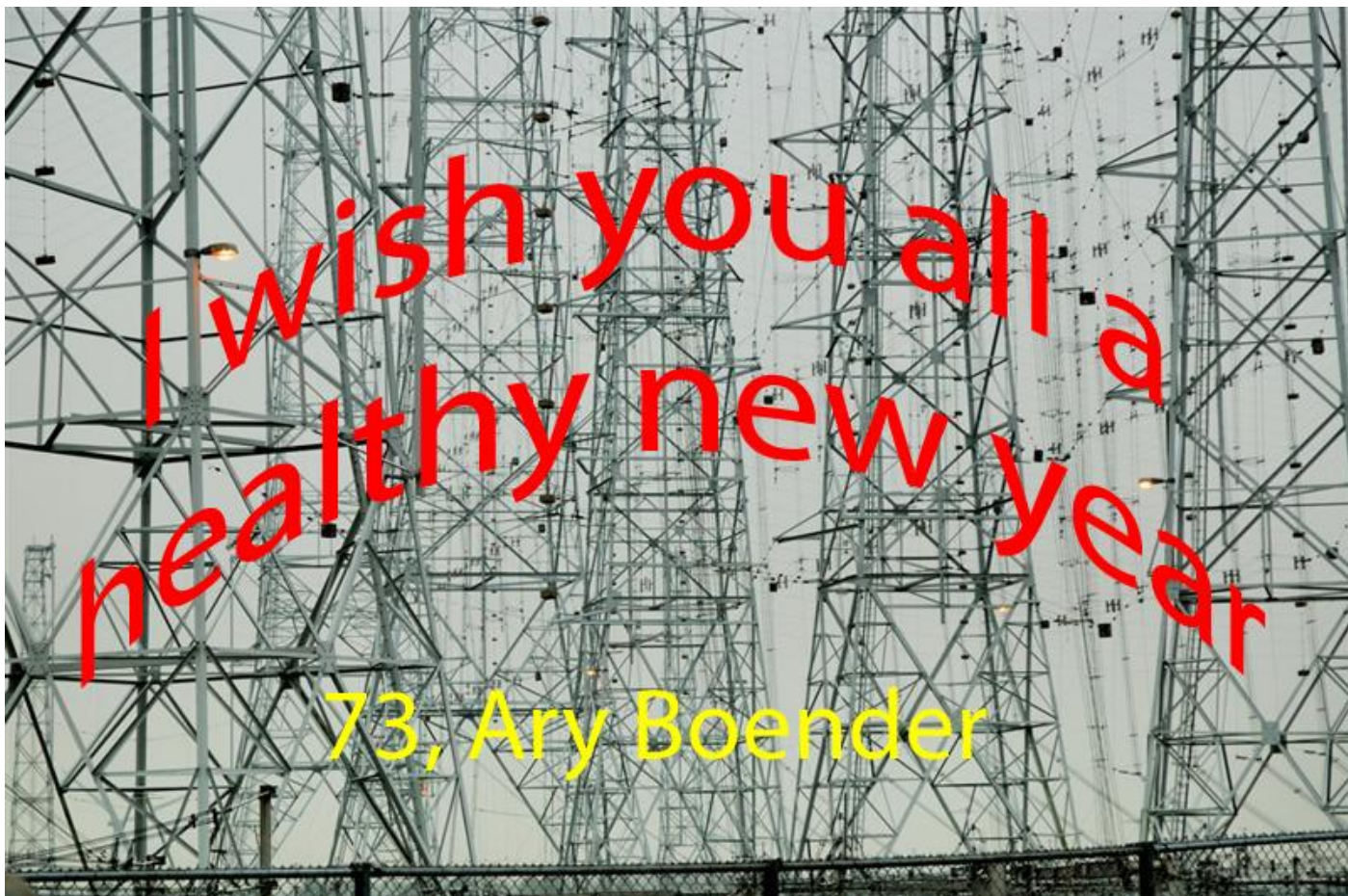
Check for previous newsletters, info, sound samples and databases also:

NUMBERS & ODDITIES <http://www.numbersoddities.nl>

SPY NUMBERS ONLINE DATABASE <http://www.spynumbers.com/numbersDB>

UTILITY DXERS FORUM (UDXF) <http://www.udxf.nl>

HF UNDERGROUND <http://www.hfunderground.com/board/>



Thanks to all who shared logs, info and recordings in the past year. I hope that you will keep sending them -Ary-

I was recently interviewed by the Daily Mail about the Buzzer. The story is now online

<http://www.dailymail.co.uk/sciencetech/article-2877988/Can-solve-mystery-UVB-76-Radio-station-buzzed-second-1970s-no-one-knows-why.html>

VOICE STATIONS



E06

4836 kHz, 04-12/18-12, 2030 UTC

321 569 20

14259 22676 32782 32782 76723 89409 12215 74326 64070 90235

38085 59543 12319 74238 36664 12256 18841 73311 98089 12250

569 20 00000

5926 kHz, 10-12, 1700 UTC

215 708 69

81217 30767 52604 45925 28560 23545 40956 32565 98931 25241

18456 74276 63642 60149 23281 24239 85684 56802 40309 58607

54963 67365 80381 12820 98459 13760 15951 76230 47964 46968

38583 40805 53236 04706 97974 85247 57919 86142 93215 91470

87858 73619 28104 16478 73761 32820 45965 34623 17150 28947

58474 78320 06413 70503 75157 46418 28215 04279 15057 74854

65794 19053 28521 74984 34639 39258 57583 83901 61564

708 69 00000

Note:

Same ID used by M24/G06, Monday 0800z and Thursday 1300z for G06. And for M24 19/26 November 300/1330/1400/1430z

18455 kHz, 18-12, 0700 UTC

923 845 106

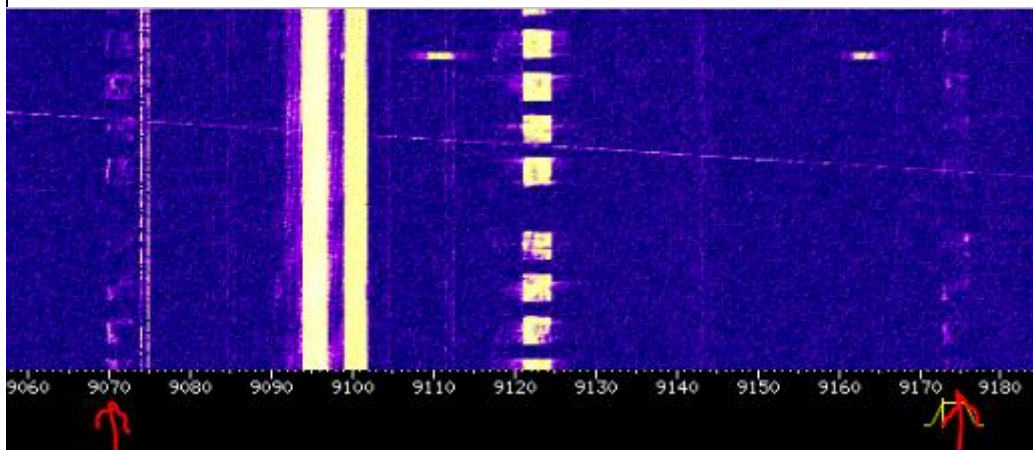
78100 77326 46746 28401 74898 50778 33503 20508 31231 32441
46777 36572 84551 86595 68101 59929 04832 04582 36580 73078
14505 23253 34886 56457 26082 31802 17166 96685 27133 15409
21017 15223 67311 09143 30739 53371 27129 60551 84043 74564
73145 24379 39405 69879 29276 37860 46244 77709 18902 50005
85134 53529 57466 03332 70212 50704 00246 91481 30978 98265
74982 41142 15689 86594 54078 91728 83514 96964 46012 71261
77650 35854 10695 91861 96576 59991 28430 13326 05648 03061
77178 48192 56203 39999 97812 06755 04386 49834 52046 05462
46852 62990 02721 87114 15565 04009 71152 26340 98860 65615
51214 18737 80964 75066 84836 77163
845 106 00000



E07

New daily skeds popped up on 9 December. We can only guess why this is. A new message appears every 3 days. The messages is sent 12x per day, 3 days in a row. This new variant has the same voice and speed as E07a, but without the 5FG group after the ID. Mode: J3E.

1100 UTC	18646 kHz	1200 UTC	16139 kHz	1600 UTC	9121 kHz	1700 UTC	6949 kHz
1120 UTC	17464 kHz	1220 UTC	14607 kHz	1620 UTC	7967 kHz	1720 UTC	5886 kHz
1140 UTC	15826 kHz	1240 UTC	13591 kHz	1640 UTC	6942 kHz	1740 UTC	5091 kHz



Spur for E07 sked on 20-12, 1600 UTC, 9121 kHz (Avare)

9, 10, 11 December message:

813 1 490 46
82965 92347 14423 56103 14931 55955 86440 54013 35919 76751
75499 19343 83749 78087 70424 47983 90748 21554 02715 09002
96263 68339 45187 16267 83026 65436 66819 47590 62694 63600
56830 54434 51130 25275 88101 24640 81088 94525 68246 52878
95191 71279 31858 55714 65077 00545
000 000

12, 13, 14 December message:

813 1 352 43
00097 05158 04663 73410 01310 90143 45971 98576 27838 02726
45847 35256 28703 02937 46147 31372 54199 65032 09987 55233
44760 52535 69471 14558 20707 11027 15207 86611 57337 79500
01104 44455 38871 83715 50127 57275 21038 30287 23725 30049
07000 70155 53008
000 000

15, 16, 17 December message:

813 1 678 51
40087 44527 29022 02821 97230 10694 94148 41412 11814 39195
92407 13059 99280 64969 42985 84465 45947 62867 25616 13356
26141 01942 52582 47225 79430 19318 93398 30450 90253 87417
01817 10186 20469 10838 04111 95962 98530 61720 35408 79370
32442 44191 31173 51484 18874 89077 05056 25202 20953 65051
38908
000 000

18, 19, 20 December message:

813 1 411 48
47543 30268 72383 17804 17044 51781 54463 23660 74842 40903
71795 06866 00730 67749 67413 16649 35574 85792 00053 71875
50572 40272 06534 53857 00445 65482 78520 43348 39101 91052
00235 39083 93274 39255 24808 68680 15773 83841 67041 31745
01494 00813 80784 48922 88927 48568 60494 70608
000 000

21, 22, 23 December

813 1 322 68
70458 44582 78126 43950 81133 67738 78892 69430 27343 91918
52993 72096 81998 10724 35663 47430 10279 22771 26802 16337
97603 89921 66361 17277 55227 69111 83600 98039 91012 71663
63047 38546 64533 04528 01837 59979 95573 36497 53128 43430
23843 33179 19403 26950 44019 85195 83068 86465 89186 43428
20316 85670 41527 04712 23822 50854 18260 32093 41730 16028
91805 55887 15059 40640 52557 45845 46075 01954
000 000

7464/5864/4564 kHz, 21-12, 1800/1820/1840 UTC

485 1 235 137
70672 45249 21782 11533 08462 90986 46291 05587 26960 91201
26849 40903 78096 09845 58774 45910 54860 75736 15913 88204
25261 46469 50783 46052 14022 51085 27300 93240 84675 59002
05280 63368 95455 22346 57009 79661 98916 62073 86094 74938
09987 76417 39628 84747 92480 53811 26423 31210 73781 62680
51195 77266 81268 87996 98712 55072 05961 75409 54639 47131
98319 37847 64674 54810 89085 95976 98340 10212 27082 73021
00915 45424 76273 52340 29244 55282 02894 05772 75240 75658
06278 66400 23763 52874 47738 62249 68782 72446 92578 34956
07460 96994 78429 68355 30394 58085 86057 74940 00644 87996
88066 18047 18993 48950 62837 88827 99711 70280 80505 59017
12389 01239 32324 27193 55013 48182 01913 64784 07310 69821
10415 56646 72361 88222 78328 32734 36579 38351 61827 25858
40535 90608 08572 32364 14344 86218 12460
000 000

24, 25, 26 December

813 1 437 57
19861 95156 69764 71304 88864 00027 26114 17731 38056 63771
78044 17142 67131 59220 92334 27349 59003 85014 25815 24066
09644 43648 87343 17381 30125 69377 30181 34376 30882 89881
14993 30031 98230 98152 89046 64467 60012 78322 53068 93572
02497 54853 10209 89116 57186 32496 35300 49527 48077 71322
39633 60020 07670 49280 56363 69190 32254
000 000

27, 28, 29 December

813 1 940 62
39528 85560 77152 78865 50679 81174 52355 77611 36584 52061
82283 43716 78857 26513 36156 53190 99359 99232 69635 46049
55663 16848 33491 97260 07555 24658 37046 82374 01405 41500
30118 01157 27961 98259 75174 28514 59285 10606 03407 40506
52102 59907 36244 11881 51901 97656 17515 41960 13335 54692
87360 48688 58011 06560 00718 00991 91138 36523 41649 88295
68598 94550
000 000

30, 31 December

813 1 518 70
39097 86835 90265 95123 10894 50344 64233 86677 91037 33399
16477 72621 59971 83716 71621 40126 58168 63786 13007 37655
36537 70690 01044 01455 02820 30674 61663 93072 08916 73393
39674 71615 73659 39061 14879 20838 30594 43954 09934 07670
79578 21720 76470 63545 41818 16509 76618 88891 90198 06779
40970 37677 80128 29833 28410 53007 72221 83311 74842 87154
72751 68154 60558 35848 68324 92923 02143 44241 79286 26605
000 00



E07a

E07a, 5887/5387/5087 kHz, 12-12, 1610/1630/1650 UTC

830 1 11411 9906 93
60516 99936 24286 43247 83611 56509 94208 89269 82875 08648
07323 61445 22214 31444 43030 18268 48474 34056 23261 23494
63758 21216 59752 79711 78412 75976 19131 64252 77487 33526
39931 50196 34401 04467 53535 94799 26423 00134 43774 06475
03810 37755 10217 20826 06563 10611 09040 23980 81198 71613
71132 89011 75925 64248 85622 56346 68285 54810 61647 39356
15105 82097 26134 04836 69785 82415 01063 24871 50456 43452
27575 87732 87991 52639 88174 86274 73848 25103 90617 55181
54583 28236 06567 75440 39552 13000 83665 93074 38819 42431
27018 81105 33370 000 000

E07a, 11121/12221/13421 kHz, 13-12, 0900/0920/0940 UTC

124 1 11411 9906 93
67516 99936 24286 11683 43247 56509 94208 89269 82875 08648
07323 71445 22214 31446 43030 18268 48474 34056 23281 23494
63758 21216 59792 79711 78412 75876 19131 64252 77487 33526
39931 50196 34401 04467 53539 94799 26423 00134 43774 06475
03810 37755 10217 20826 06563 10611 09940 23980 81198 71613
71132 89011 75925 64248 85622 56346 68285 54810 61647 39356
15109 82097 26134 04836 69785 82415 01063 24871 50456 43452
27575 87732 87991 52639 88174 86274 73848 25103 90617 55181
54583 28236 06567 75440 39552 13000 83665 93074 38819 42431
27018 81105 33370
000 000



E11/ E11a

10690 kHz, 02-12, 1810 UTC

981/10 Attention 93360 72024 16818 52508 82917 82019 95681 33035 43366 64586 Attention, rpt msg, out

10690 kHz, 23-12, 1400 UTC

987/10 Attention 82024 25301 35683 56486 68681 57900 47994 68490 79650 51827 Attention, rpt msg, out

10690 kHz, 30-12, 1400 UTC

987/10 Attention 69952 69864 59702 31342 40742 76865 72384 00160 71002 36696 Attention, rpt msg, out

10213 kHz, 30-12, 1810 UTC

984/10 Attention 75875 97990 19561 53887 34482 37197 83409 69641 48051 63791 Attention, rpt msg, out

15632 kHz, 01-12, 1540 UTC

226/37 Attention
79281 24930 17254 83139 04672 96031 70326 85847 82200 30750
00665 63020 87974 12063 01146 80090 59655 85417 66402 66970
92279 41362 65923 75412 57608 26834 32014 38589 80853 37603
47897 51052 11956 37914 04027 17458 93152
Attention, rpt msg, out

16112 kHz, 02-12, 0745 UTC

330/35 Attention

40755 57118 17060 62411 98185 10321 59067 44252 56249 78222
25646 06551 60582 92952 92441 99024 79548 90632 46575 09581
05835 26757 95718 45528 24051 34847 48799 21992 86945 78211
50236 16732 56205 55797 21609

Attention, rpt msg, out

9950 kHz, 04-12, 0930 UTC

275/33 Attention

00584 64859 54621 59416 99334 95810 23684 48595 81896 55022
91894 21383 20693 04377 80597 09461 41402 83588 30297 39444
18873 72767 05523 46578 62822 60322 43516 19517 45145 84058
75048 67318 82370

Attention, rpt msg, out

14410 kHz, 08-12, 1110 UTC

952/40 Attention

17353 03791 53085 26739 63280 11257 13358 23957 50255 24536
78398 10762 92835 55095 71860 70772 64921 87299 07955 53740
37510 72192 89287 07262 35933 46468 36843 05385 82433 50151
13800 98717 44373 33919 73187 76313 84481 84936 95220 97746

Attention, rpt msg, out

4441 kHz, 17-12, 1445 UTC

286/36 Attention

77993 28086 22934 90597 46820 82982 10360 32987 20656 52023
84968 18695 28779 00361 91952 05548 07862 76397 21887 46573
00334 19313 96014 49145 34010 11160 17003 99671 51003 29228
38020 31225 03954 00059 02066 33426

Attention, rpt msg, out

10800 kHz, 19-12, 0710 UTC

630/33 Attention

88273 89189 17407 16462 10090 07627 32922 74493 30492 54077
32259 43215 87871 64296 27361 91495 18553 27682 22039 08694
64235 38250 01785 82859 40459 35449 89039 27505 80708 13821
92999 47714 01298

Attention, rpt msg

6923 kHz, 19-12, 1710 UTC

951/20 Attention

86951 45229 16868 97243 88770 89210 26570 65220 34654 95237
04710 06839 68534 49353 34304 80961 48470 64441 26113 42618

Attention, rpt msg, out

9446 kHz, 29-12/31-12, 0900 UTC

537/35 Attention

10638 49405 29337 38361 38857 45814 32651 50628 64414 76428
67570 30480 58539 54516 11082 94940 53322 56715 60656 89590
07266 07967 60092 71998 34721 67637 85141 50065 08443 63948
04261 58205 75230 21266 09602

Attention, rpt msg, out

6923 kHz, 29-12, 1810 UTC

951/20 Attention

02006 43150 25198 56514 87841 65862 81498 50775 45088 65627
33805 30571 59177 50997 60679 06770 70985 79060 09431 99882

Attention, rpt msg, out



E25 / E25a

E25 does frequent test transmissions on 9500, 9550 and 9600 kHz, featuring a test tone and a song, often other than Umm Kulthum's. These are often underneath other BC's. The tests occur almost daily at 1110 and/or 1210 UTC. So far no messages have been heard on these frequencies. (info: Mr Dxr / Priyom).

E25 now only uses 9450 kHz for occasional Thursday, Saturday and Sunday transmissions at 1215 UTC for ID's 835 and 837, same message on all the days, intro: "Enta Omri".

9450 kHz, 11-12, 1215 UTC 835 837 2 8888 8 Message (3x) 3001 8510 9868 0743 2663 3582 8754 9807 8510 3757
Rebeat (3x) End Of Message
9550 kHz, 27-12, 1110 UTC Test tone + music, 7 mins long
9600 kHz, 27-12, 1210 UTC 1000 Hz tone, then Umm Kulthum's song "Lessa Faker"



S11a

12530 kHz, 18-12, 1015 UTC

479/36 Vnimanie

55900 78873 13712 16093 13108 21934 44442 59839 00131 29098
99672 35824 96012 35986 38112 62859 39158 44426 48708 16231
16912 01907 80946 59412 44538 39481 29154 00961 32706 39385
36720 92097 12779 62111 82385 50050

Vnimanie, rpt msg, konec

7504 kHz, 19-12, 0915 UTC

487/36 Vnimanie

18000 20886 59271 59701 04307 89259 40436 44040 50995 33795
47805 16154 46596 38692 19522 52219 01550 02375 89738 60548
83309 26397 50352 38432 85077 79384 63283 16074 44750 74608
35720 33662 22165 11105 09683 76281

Vnimanie, rpt msg, konec

9610 kHz, 23-12, 1020 UTC

420/33 Vnimanie

18987 76191 94010 78420 40319 67027 03815 18565 40028 35349
76518 14030 22876 54349 45048 55086 25981 68173 46063 79430
21444 44807 75800 62608 90036 22168 41615 34231 20058 28701
87532 84635 73560

Vbimanie, rpt msg, konec



S28 - The Buzzer

Mode: USB

Frequency: 4625 kHz

04-12, 0932 UTC	MDZhB 03 832 BYeNZOKSI 3329 8216
04-12, 1041 UTC	MDZhB 48 845 BARNICHAN'Ye 2884 4556
04-12, 1312 UTC	MDZhB 52 972 SIZAL' 0563 2887
04-12, 1529 UTC	MDZhB 83 776 CYuN'HA 4596 6146
04-12, 1651 UTC	MDZhB 53 897 IZACHYeN 5375 1458
07-12, 0944 UTC	MDZhB 32 093 KVADRATOR 4025 5665
07-12, 1416 UTC	MDZhB 38 202 LALDYKA 7063 5278
10-12, 1426 UTC	MDZhB 16 107 LIPAVLON 2423 7676
10-12, 1549 UTC	MDZhB 85 116 BIL'BOKYe 1152 4757
10-12, 1627 UTC	MDZhB 92 038 MIRIKA 13 67 63 68 SIMVOLIKA 56 89 33 44 RAUNG 02 70 09 75
	ODKORA 34 24 43 13 Priyom
10-12, 1647 UTC	MDZhB 54 945 NAGVOZDKA 6500 1733
10-12, 1729 UTC	MDZhB 85 766 DIAKARB 0807 1233
11-12, 1532 UTC	MDZhB 27 114 ADOPTACIYa 4455 2808
18-12, 1124 UTC	MDZhB 43 886 GAVYuLA 0874 9841 OBRYeDKA 2722 5468
19-12, 0303 UTC	MDZhB 69 975 MARONI 6070 9845 IDYeOSOMA 9118 5423
24-12, 0855 UTC	MDZhB 87 829 BIPLANOVYI 4149 9228
25-12, 0935 UTC	MDZhB 50 263 CYeNTIM 9613 4728
25-12, 1034 UTC	MDZhB 72 988 SKRUTYeN' 2048 9289
26-12, 1838 UTC	MDZhB 01 756 HAJLARD 5671 9149
29-12, 0955 UTC	MDZhB 84 362 KARBA?TOKS 4519 8920
29-12, 1109 UTC	MDZhB 81 062 VYeRShYeNNYI 2268 2567 (also in CW on 5077 kHz)
29-12, 1418 UTC	MDZhB 84 576 IZhYeMUHA 0398 0592
29-12, 1435 UTC	MDZhB 98 785 KIRASIR 5680 2161



S30 - The Pip

Modes: CW (Pip), USB (messages)

Frequencies: 3756 kHz (night), 5448 kHz (day)

3756 kHz, 02-12, 1851 UTC	SB7Z 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV 12CI 79AJ
5448 kHz, 04-12, 0932 UTC	8S1Shch 63 645 ATTYa 9263 6749
5448 kHz, 04-12, 1312 UTC	8S1Shch 22 176 METAMIZIL 2196 6109
3756 kHz, 04-12, 1953 UTC	HCLF 61HZh ZBIL L7O5 V'Z' NLCE V2MZ SB7Z 8MUO TUZR
3756 kHz, 06-12, 1514 UTC	8S1Shch 81 929 LYeNSMAN 5719 5573
5448 kHz, 08-12, 0942 UTC	8S1Shch 22 844 TARITAU 0025 2781
3756 kHz, 09-12, 1912 UTC	7VNSHch Zh7NZh YMA5 VHT3 AGDT 'U1B OSOG BO6C F56Shch 9GSA
3756 kHz, 10-12, 1424 UTC	8S1Shch 68 721 GYeOGYeNIYa 7303 2803
3756 kHz, 10-12, 1545 UTC	8S1Shch 75 530 HLORTOLUOL 2727 2494
3756 kHz, 10-12, 1629 UTC	8S1Shch 38 233 VOTRA 9577 0799
3756 kHz, 10-12, 1642 UTC	8S1Shch 63 848 ROTON 5536 6753
3756 kHz, 10-12, 1730 UTC	8S1Shch 47 484 PORKA 1544 5495 STIRATOR 9342 0963
3756 kHz, 10-12, 1906 UTC	LI27 V2MZ SB7Z 'O6P Y8MV 6I2Zh 8CSHch' 27Shch' N1DU 53OB
3756 kHz, 11-12, 1629 UTC	8S1Shch 38 748 NAPORNIK 5196 4061
3756 kHz, 11-12, 1741 UTC	C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNSHch Zh7NZh
3756 kHz, 16-12, 1731 UTC	F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS
5448 kHz, 18-12, 0545 UTC	8S1Shch 32 939 MYeDPUNKT 5908 4415
3756 kHz, 19-12, 0259 UTC	8S1Shch 94 720 ABYeCYeDARIJ 5166 1754
3756 kHz, 19-12, 2009 UTC	Y8VM 6I2Zh 8CSHchJ 27Shch' N1DU 53OB 78MV DEAY JH'J
5448 kHz, 22-12, 1349 UTC	8S1Shch 18 155 GYeLDRIYeC 6458 1712
3756 kHz, 26-12, 1833 UTC	8S1Shch 86 803 KUBANIK 9092 8976

3756 kHz, 29-12, 1416 UTC 8S1Shch 53 311 SOChYeL'NICA 2317 4316
 3756 kHz, 29-12, 1434 UTC 8S1Shch 06 538 EFALON 5326 3850
 3756 kHz, 30-12, 0523 UTC TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ
 3756 kHz, 30-12, 1438 UTC SB7Z 'O6P Y8MV 6I2Zh 8CShch' 27Shch' N1DU 53OB 78MV DEAY



S32 - Squeaky Wheel

Mode: USB

Frequencies: 3838 kHz (night), 5473 kHz (day)

3828 kHz, 02-12, 1441 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07
 3828 kHz, 03-12, 1959 UTC ROSA-64 DZhIGIT-46 OTPOR-89 LOGIKA-05 YaHTA-94 FONTAN-34
 5473 kHz, 04-12, 1318 UTC ALFA-45 01 933 DIYeTADAN 5036 8967
 3828 kHz, 04-12, 1525 UTC ALFA-45 42 237 MYeDIUNIZ 9984 6265
 3828 kHz, 04-12, 1700 UTC ALFA-45 78 407 KOKVIMBIT 7415 4483
 3828 kHz, 04-12, 1837 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39
 3828 kHz, 05-12, 2103 UTC SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27
 5473 kHz, 08-12, 1220 UTC SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27
 3828 kHz, 08-12, 1512 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07
 3828 kHz, 09-12, 1715 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39
 3828 kHz, 09-12, 2000 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07
 3828 kHz, 10-12, 1428 UTC ALFA-45 08 539 HOLOKSIN 5243 7178
 3828 kHz, 10-12, 1549 UTC ALFA-45 79 318 GELDRIYeC 1678 3501
 3828 kHz, 10-12, 1634 UTC ALFA-45 33 009 STYDLIVYeC 5236 2454
 3828 kHz, 10-12, 1645 UTC ALFA-45 04 054 KOZONOK 2784 3646
 3828 kHz, 10-12, 1731 UTC ALFA-45 11 579 78 401 YaSKOLKA 6552 9827
 3828 kHz, 10-12, 1734 UTC ALFA-45 13 299 OTRYePKI 7229 3546
 3828 kHz, 10-12, 1851 UTC ALFA-45 57 827 24 141 FLIK 0239 2384
 3828 kHz, 10-12, 1905 UTC ALFA-45 10 810 59 855 KINOPLYeNKA 1331 6848
 3828 kHz, 10-12, 1921 UTC ALFA-45 64 320 28 115 POROShOK 0559 8406
 3828 kHz, 11-12, 1412 UTC ROSA-64 DZhIGIT-46 OTPOR-89 LOGIKA-05 YaHTA-94 FONTAN-34
 3828 kHz, 11-12, 1635 UTC ALFA-45 93 360 SKVORCOVYI 1883 8321
 3828 kHz, 16-12, 2007 UTC PYeNZA-07 KURGAN-40 DUBLYoR-68 SLUZhBA-32 KATYeNIS-25 VAZhNYJ-85
 3828 kHz, 19-12, 0303 UTC ALFA-45 52 818 MOTOVAGON 9317 8029
 3828 kHz, 19-12, 2025 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39 ROSA-64 DZhIGIT-46
 OTPOR-89 LOGIKA-05 YaHTA-94 FONTAN-34
 5473 kHz, 22-12, 1355 UTC ALFA-45 97 394 ARYS 2019 7477
 3828 kHz, 23-12, 1958 UTC ROSA-64 DZhIGIT-46 OTPOR-89 LOGIKA-05 YaHTA-94 FONTAN-34
 3828 kHz, 26-12, 1850 UTC ALFA-45 27 110 VOZZYVANIYe 0231 7413
 3828 kHz, 29-12, 1423 UTC ALFA-45 68 082 HVOJNYJ 6376 9587
 3828 kHz, 29-12, 1439 UTC ALFA-45 55 488 PIANLAV 1135 9540
 3828 kHz, 29-12, 1926 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07



V13 - New Star Broadcasting Station **星星廣播電台 Xīngxīng guǎngbò diàntái**

Frequencies: 7654, 7688, 8300, 9276, 9522, 9725, 10182, 10522, 11430, 13750, 15388 kHz

Schedules per 1 July 2014

13750 kHz	0200-0230 kHz	New Star 1	15388 kHz	0800-0830 kHz	New Star 4
13750 kHz	0300-0330 kHz	New Star 1	9725 kHz	1200-1230 kHz	New Star 4
8300 kHz	0500-0530 kHz	New Star 3	9725 kHz	1300-1330 kHz	New Star 4
8300 kHz	0600-0630 kHz	New Star 3	Note: not all the skeds are always on the air		
15388 kHz	0700-0730 kHz	New Star 4			



V07

16037/14637/12137 kHz, 28-12, 0100/0120/0140 UTC

661 661 661 428 71
 48133 40300 79135 43433 83157 81314 38503 73037 19429 04739
 51101 97190 50339 53337 24247 23323 81198 99015 73257 04730
 35383 23250 37129 35355 12832 00455 47928 71744 53331 38813
 55391 45473 39070 51910 00149 25247 38157 48238 37073 78004
 08181 39801 19259 93507 83373 84241 37322 55314 15070 73377
 90919 70302 70502 12334 99399 91333 34791 05087 11427 84713
 43122 07211 47388 77153 13978 58711 85472 95538 12945 09081
 07783
 000 000



V21

Cuban Babbler

Barry copied the Babbler in a very cheerful mood, singing instead of babbling. A recording can be found on the N&O website.

5637 kHz, 10-12, 0330 UTC. Here is the transcript:

???? 31 23
 34 34 900
 42 466
 22 32 32
 962 232 22
 22 22 961 215 22
 31 31?? 31 940
 226 22 22 679
 34 34 942 400 14
 23 32 32 962 248 23
 28 28 962 173 23
 679 22 679 92 31 31
 940 271 24
 22 23 22 28 961 253
 24 34 942 264 24
 32 32 962 255
 00 00 35 00 35 961 151
 35 00 961 151
 11 00 22 25
 31 31 940 159 (sound in background -voices?-)
 26 31 679 31
 34 34 942 299 27
 32 962 426 27
 31 100 23 31 100 23



VC01 - Chinese Robot Chinese Air Defense

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

3036, 3749, 3837, 4075, 4165, 4175, 4180, 4258, 4343, 4410, 4422, 4427, 4480, 4530, 4580, 4726.5, 5114, 5195, 5232, 5288, 5303, 5328, 5330, 5343, 5393, 5471, 5592, 5700, 5742, 5799, 5802, 5820, 5832, 5892, 6209, 6479, 6771, 6840, 6858, 6860, 6949, 6960, 7090, 7351, 7608, 7684, 7726, 7739, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 7938, 8000, 8025, 8046, 8170, 8779, 9000, 9129, 9169, 9192, 9290, 9340, 10508, 17392 kHz.

Heard on 5471 kHz, 28-12, 2223 UTC



VC03 Chinese Air Defense network

14172 kHz, 05-12, 1224 UTC, ALE and voice traffic

425 doing comms cheks with 462 and 465.

MORSE STATIONS



MX Russian Military beacons

Current cluster frequencies:

3594, 4558, 5154, 7039, 8495, 10872, 13528, 16332, 20048 kHz

Other frequencies:

L 6917.5, 8497.8 kHz

V 3658, 4150, 6809, 6928, 7027.5 kHz

R 5466 kHz (seldom reported these days)

W 5835, 8112, 8162 kHz (Air Force)

Cluster beacon slots:

.7 "D", Sevastopol

.8 "P", Kaliningrad

.9 "S", Severomorsk

.0 "C", Moscow

.1 "A", Astrakhan

.2 "F", Vladivostok

.3 "K", Petropavlovsk Kamchatskiy

.4 "M", Magadan

Note that "L" on 6917.5 kHz, has been replaced by "P" for a large part of the month. First noted on December 3rd.



M08a Dirección General de Inteligencia

During several days M08a mixed with unscheduled HM01 transmissions at 2300 UTC. See further our Logs Section.



M12

10598 kHz, 01-12, 1720 UTC

938 938 938 1 1453 117 1453 117
56999 41008 20226 81974 04681 80690 02346 16938 10607 82111
04396 18815 82500 86990 63611 97997 68952 64451 53901 23308
69011 56429 12048 86711 59616 55068 17079 37487 89730 99311
95533 11890 52507 25329 63308 52094 54874 75587 88565 43345
38069 72983 75816 81338 52962 79687 21730 10127 33621 41680
88347 07446 00284 74709 09295 77167 25745 16249 20104 18158
50019 20232 58616 28617 21511 06721 77248 37934 41022 55238
34755 17886 86982 61865 97034 11302 41915 16932 70793 43809
01279 92990 15884 60365 18857 09495 07025 44031 01733 81834
81793 98341 41600 44865 91855 74223 86378 24686 18415 90825
86307 43673 42822 63033 92655 32051 22485 98596 71093 71027
89066 24195 13532 66395 46693 36186 27211
000 000

13569/14869/16269 kHz, 04-12, 1010 UTC

582 582 582 1 5853 133 5853 133
90230 07270 17365 39675 10068 79430 98890 23305 98524 47932
91676 97972 86381 00110 40599 64019 72866 04189 13713 65167
94199 97093 64068 62448 31458 97389 46087 27075 22843 80967
30168 32496 46882 05583 82026 28287 79812 55430 97131 15090
31727 47631 42648 91803 08523 64380 88102 28863 29638 29398
06462 11738 45998 78463 64606 84720 39000 55359 58722 70443
68475 34376 29560 43783 36889 30785 47851 98388 22321 37750
64620 96175 36090 45898 48364 46964 94323 81208 29506 72451
08076 09218 60357 31147 35583 83749 57755 71000 82809 87206
81776 63991 96940 61606 65600 22705 67135 66073 53329 61633
09406 17762 92615 90601 23820 13920 69462 37104 79098 18784
52778 97483 63420 55013 51225 16171 97379 99325 94884 10458
76017 44317 82859 59842 50853 49089 52133 32464 31176 94242
57590 62572 50309
000 000

6904 kHz, 15-12, 1941 UTC

257 257 257 1 3805 108 3805 108
32183 96585 26936 09050 77042 35776 71187 43235 19650 61073
71851 36474 97111 87308 77699 56697 99041 18977 50819 66560
43662 83265 12043 50085 03425 59677 10043 58848 31260 37361
60562 078107 7437 00482 06298 77307 53092 95953 72806 41316
95446 89825 37269 09651 98028 83043 11859 57188 30489 42367
84788 56731 63178 95582 08249 41495 62894 15180 82588 48633
44102 33232 62206 91908 79730 04155 18665 91886 55277 29770
23646 01090 96529 84755 52830 89714 72873 19046 73543 79543
66113 32989 73508 54664 75749 65199 83339 55788 20702 07973
89015 84393 25530 93328 05835 71620 95656 84696 41772 99319
46886 82089 45618 63091 34629 37656 15146 24130
000 000

13569/14869/16269 kHz, 28-12, 1010/1030/1050 UTC

582 582 582 1 4833 159
82517 14571 93924 30939 18966 19196 31951 19546 43510 74797
87440 74321 09105 45857 61782 09516 65893 73422 32568 97187
26641 68703 22623 39888 27957 44477 80937 23114 95931 80706
72199 03397 00471 77553 89116 12469 42413 97327 70140 82327
63789 16972 80402 40067 89567 99017 43512 02225 39560 23248
32473 97651 17347 42460 38023 99144 57908 87149 19846 43308
74731 68187 78678 23883 13081 77614 58489 51393 65716 95250
37582 87531 30731 21847 80483 33299 94269 21775 16376 06461
98231 03951 34273 60254 60553 30812 19292 91950 80973 88007
94609 97455 53115 14289 57987 69427 07262 82668 52335 08411
12428 43059 91248 37502 77168 0180b 90867 91162 20455 33650
28529 78429 29335 41449 90089 61137 15698 70923 29016 91623
45870 36805 19565 42676 48153 31819 36675 35127 86751 26365
15070 30430 39003 88969 58256 71584 17917 11223 86880 57657
50635 43468 96909 18303 40611 24938 35033 39502 84175 39413
50983 18153 39428 99885 22641 37304 18774 73265 54680
000 000



M14

4636 kHz, 23-12, 1820 UTC

186 275 020 =
51059 23438 76167 25680 94045 26295 92184 44625 57552 67851
95578 17869 75794 68461 80694 32456 21369 84274 96823 17105
= 275 020 00000

6792 kHz, 27-12, 1701/1732 UTC

910 573 21 =
57142 55317 94814 55384 98372 62679 99300 24292 15828 17183
21142 46029 16767 31074 76328 49355 63996 88481 10971 67133
08435
= 573 21 00000

18041 kHz, 31-12, 0500 UTC

952 418 60 = =
66497 28660 00625 11152 67036 36374 25910 79269 56619 31886
54648 44769 22753 03688 59055 32535 83885 89105 62333 35390
65715 99615 03470 34369 71350 15389 89745 49965 06259 53769
96852 41510 43928 41361 28592 56889 43201 04421 51470 79781
53199 37232 55335 26593 66776 13158 27398 10303 08464 68061
88061 22374 67805 10773 62011 36947 14051 80292 82996 18483
= = 418 60 00000



M41

Russian Air Defence Forces

Во́йска ПВО Voyska PVO

Al copied a number of M41 transmissions. Nice job, Al !!

5402.5 kHz, 10-12, 1711 UTC

72219495039973448228710601906
RPT 72219495039973448228710601906
5EQB AR

4985 kHz, 13-12, 1603 UTC

VVV VVV VVV EEEEE
00978899658 2 991001858512800
0087929993 1199100810511800

5226 kHz, 14-12, 1534 UTC

i.p. 1191731501722 QBOA K
VVV VVV EEEE VVV VVV H8LI
7221949721996315119 1731501722 H8LI K
AR AR

5226 kHz, 14-12, 1547 UTC

i.p. 29969632165720901 H8LI K
72219495029969631165720901745 K
AR AR

5226 kHz, 19-12, 1646 UTC

VVV VVV PYQI
72219495039989652161710701839 RPT
72219495039989652161710701839 NJJ4
VVVV VVV PGXA
722194950299 79178128721401515 NJJ4 K

5740 kHz, 22-12, 1702 UTC

JV3T WZD 006401 63176 6371 60 13
ABV 006401 63176 66716013 722 5116 401 60014006403674
828771 60 14
ABV 006403 6748287 716014 722 5116 403 800 15 AR

5226 kHz, 24-12, 1628 UTC

722155 95029 98 9659161 72180 18 14
RPT 7722155 95029 98 9659161 72180 18 14 LJ5Y K

5226 kHz, 26-12, 1614 UTC

ZGEA 722 195 97 44 9975 16 9 16170 00 0018 03 RPT
722 195 97 44 9975 16 9 16170 00 0018 03 RPT ABEZ K

5740 kHz, 16-12, 1625-1633 UTC

VVV JV3T JV3T AR
JV3T WZD 6401 631 4328 7180 33 ABV 6401 631 4328 7180 33
WZD 722 511 6401 800 34 AR



M89

Chinese military

Roundslips and callsigns

V A7TR A7TR A7TR DE DI9Q DI9Q
V 5RAB 5RAB 5RAB DE M9AB M9AB
V 7NPE 7NPE 7NPE DE QV5B QV5B
V 6TRW 6TRW 6TRW DE J9NS J9NS
V 7NPE 7NPE 7NPE DE QV5R QV5R (faulty transmission)
V 8CPZ 8CPZ 8CPZ DE XW6W XW6W
V 8DKB 8DKB 8DKB DE ODY8 ODY8
V 8PEX 8PEX 8PEX DE TI5F TI5F
V BNGC BNGC BNGC DE XSV85 XSV85
V BIQ9 BIQ9 BIQ9 DE ISL2 ISL2
V BRH0 BRH0 BRH0 DE 8NGG 8NGG
V B9SR B9SR B9SR DE AL6R AL6R
V CQ CQ CQ DE DP91 DP91
V DKG6 DKG6 DKG6 DE 3A7D 3A7D
V DP9J DP9J DP9J DE CQ CQ
V EI0B EI0B EI0B DE JHG2 JHG2
V GKLO GKLO GKLO DE TYUI TYUI
V GKN7 GKN7 HKN7 DE F3J5 F3J5
V H2FL H2FL H2FL DE DRV8 DRV8
V JKDJ JKDJ JKDJ DE SLBC SLBC
V M8JF M8JF M8JF DE RIS9 RIS9

V MW3D MW3D MW3D DE 2SLC 2SLC
V N4FM5 N4FM5 N4FM5 DE NAT491 NAT491
V PGG9 PGG9 PGG9 DE MI6Y MI6Y
V RA5J RA5J RA5J DE BP2S BP2S
V RXP7 RXP7 RXP7 DE CZT2 CZT2
V S2LZ S2LZ S2LZ DE YBA6YBA6
V SR3H SR3H SR3H DE FGH8 FGH8
V SXL6 SXL6 SXL6 de 9QFZ 9QFZ
V TKLO TKLO THLO DE TYUI TYUI
V TY9D TY9D TY9D DE EOX2 EPX2
V VTX7 VTX7 VTX7 DE TZ7B TZ7B
V VXL1 VXL1 VXL1 DE XIW2 XIW2
V WZG6 WZG6 WZG6 DE 4VTG 4VTG
V YUQW YUQW YUQW DE ASDF ASDF
V ZRM7 ZRM7 ZRM7 DE LCM0 LCM0
V N4FM5 N4FM5 N4FM5 DE DUT491 DUT491
V Q5U8 Q5U8 Q5U8 DE 8QPP 8QPP
V QHV8 QHV8 QHV8 de 8QPP 8QPP
VVV Q2M Q2M Q2M DE NYZ NYZ

Messages:

3734 kHz, 02-12, 1140 UTC

RPT 68W K
RPT 86W K RPT 86 W K
RPT 90 W K
RPT 2P 02W K
RPT 95W K
QS NEEEE QSL 1944 W K
SK GB
.... DE QW4E K
GA K
RPT K GA K
110 EEEEE 10 GA K

5801 kHz, 02-12, 1100 UTC

NIL K
HER SK E
NIK
DE BGJB K
NST WS QSA 2 CQ . 2K
NIL
R SK (Can now hear 3A7D faintly in background in roundslip)
===== BNVA UDE MS BBA TU

5555 kHz, 06-12, 1441 UTC

UTDA5ATD 7N4D 4NAU 57D4 45U4 46NT 46A5 (Cont'd)
AR AR
QSL EEEE QSL ? K K
IEC == 0AS39 4
4 == TSTIIT = X HA = X == T73N4AU5 76NT 34X
05 05 05 05 05 05 (1443z) (Cont'd)
AR .505 05 05 (Cont'd)
= X
== 84N4 AU57 6NT4 ? 67NA U6D4 NA U5DA.. TU7
05 05 (Cont'd)
XX T 05 05 05 (Cont'd)
u..TD 7N3D 4NAU 57D3 35A XXX
05 05 05 (Cont'd)
UA UTDA .ATNUT76 7NA4 7N45 NDA4 5A47 563D D46T U447 N3
05 =
== Q 7734 E == ==
05 K == .5T.4N4AU 57.NT 446. A AKA KR SR
05 KW ? KW ?
4 == 05

3820 kHz, 12-12, 1331 UTC

NR 72 2130 RMKS 3892 TO 3326/3842 =
COMM/215/LZ229A2/3897/3326 AGN
NR 72 2130 RMKS 3892 TO 3326/3842 =
COMM/215/LZ229A2/3897/3326 AR
QSL ? HR WK NR 11 P

9131 kHz, 15-12, 1018 UTC

5 AR
= ?? 394 FM 564 III .512 .U 5. 4III 0218 626 1900 94 FM 3 FM FM 4 892 EEEE =
SVC QR. .512 QRW L18 622.1900 COMM 3892 AR AGN
NR 30 .815 RMKS 3892.. 22./ .502 =
SVC QRW 6512 Q.W ..18 6226 1900 COMM 3892 AR
QSL ? HR WK NR .7 ..

5801 kHz, 16-12, 1013 UTC

75N5 453U AD46 N5 ? N667 DTU4 7A7U (Cont'd)
AR
72AT3D5NT. 5 HR WK NR ..

5555 kHz, 03-12, 2231 TC

12M A120406ET 20 RMEEEE = =
M7MGR
7G NR 1 M 7G NR 14444 AGN MSG NR RA
7G NR 14/ CCC
7G NR 146NTDN
MMMMM
7G NR 14/CCK CK 330 45 1204 0620 RMKS 80D098
7G NR 14/CCK CK 330 45 1204 0620 RMKS 9800 0098 TO 7828 K
VV J2UY HJ2AJ2UX Y S J2UY J2UY DE UFFOJ UWPS (?) K
J2UY J2UY = 66/65 TT43 77D4 AAE4N4 35AT JJJJ2UY J2FJJJ2EAJ J2UY J2UTYYYY
= = = = X AAT AR W AR AR
VV J2UTYYYY YYYYYX YEEK (Horrible horrible CW operator!!!) = =
VVV S VV VV J2UD NM NM J2UNM VV J2EEEE AGN
VV J2UY J2UY DE .FOP SK K D 656 12UYY K
TR6.AO7DB ? = 66T G SA
VV J2UY Y VV J2UY .. J2U JJJJ2UY JWU
UAVV J2UY /////X = T
VV J2U HR QSA 2 K
II II C16234 AR AR CK HR NR NOT K
AS AS AS
SR M 7G GN N NR NR 012 UNT N S
J2UY J2UY DE FFOJS K (Callsign might be FFOJ)
JJ22Z
TE = = = VVV J2UNT YY VV JUEEEEEEE
= 66 = = 6

6575 kHz, 10-12, 0156 UTC

SP SKGB V
E A HRNIL SKGB V
HRNIL (X3) DE SKGB (X2) V (Cont'd. Interesting callsigns!!!)
CQ DP91 V
CQ (x3) DE DP91 (x2) V (Cont'd. Back to normal callsigns)
HR NIL SK GB (Cont'd)

3820 kHz, 12-12, 1318 UTC

28/6202 =
COMM/2200/LZQTR ..8922824389282462A.8
7201 ???
7575 7. 2 EEEEE
AR QSL ? K
HR WK NR 11..

4532 kHz, 15-12, 1039 UTC

NR 02W K
NR RP RPT 22W (Both stations on this frequency)
RPT 22W = U4A3 AR K
NR RPT 36W
R 36W = 5AUD AR K (Cont'd repeat groups)
QSL 0.1842 QSL 205 . K
R HR WK NR 318 K
N ..U K
R R OK GA K
NR 7G NR 122 CK 100 33 0215 1826 RMKS 01300 5.730.50.3 AR
R OK GA K
R R = =
56NT AT3U AU3D 756T 6TD3 7453 6U37 .TD3 U653 D436 (Cont'd)

10180 kHz, 16-12, 1018 UTC

MSG GA NR 022/CCK CK 99 19 1216 18 16 RMKS 29.. FM 3EEEEEE
RMKS 2906 TO 2382 2384 2322 2936 2905 =
D65A U56N 75N3 34TD 64N3 4TA7 3T.U 76T3 AN57 75T4 NU4D (Cont'd)
AR QSL ? HR WK NR 23

5555 kHz, 16-12, 1758 UTC,

R GA K (Just missed message header)
R = = (Both stations on this frequency)
7AD5 3DDA TN5D ND6U U46T 643A D? 373T =
7AD5 3DDA TN5D
= =
7AD5 3DDA TN5D ND6U U46T 643A 373T N35A TADU TTTA N7T7 (Cont'd)
AR K
R RPT 10G EEEEE R RPT 10CK K
AGN
R RPT 10W K
R RPT 10W = TTTA AR K
R EEE A EEEEE R AGN
R = TTTA AR K
R EEE R RPT 18W K
R 1EEEE 18W = 73AT 73AT AR K (Cont'd repeat groups)

3530 kHz, 20-12, 1502 UTC

05/CCK EEEEE
CK 99 61 1220 2230 RMKS 2EEEEEE 80. TO EEEEE 4205 K K
RPT (Both stations on this frequency)
R MSG NR 02/CCK CK 99 61 1220 2230 RMKS
WK NR GA GA
R R NKE EEEEE NR 02/CCK CK
R WK NR 7G 02 K K
R R RPT K
OK
WK NR GA K K
R R PT K K
W WWK .. RRR GA GA K K
R R WK NR 712 712 K K
R R QSL 23AW0 K K
RPT
QSL 2310 K K
R R OK K
SK GB K K
RRRPT D

3777 kHz, 20-12, 1055 UTC

6516 6362 6338 6942
MSG NR 1.050 CK 91 40 1220 185. RMKS 62.. TO 6516 6362 6338 6942 =
55A6 U756 6N4D N... . AN35 3U53 56U4 NNNN TTA3 3N6U AN3U (Cont'd)
AR
CQ 06/6516 6362 6338 6942 MSG NR 12050 CK 91 40 1220 1855 RMKS 6232
TO 6516 6362 6338 6942 =
55A6 U756 6N4. DT. TA3A A.5 3U53 56.4 NNNN TTA3 3N6U (Cont'd)

3878 kHz, 20-12, 1530 UTC

RPT 2P03 WK K
R RPT 2P0 WK K
RPT 1P1.W K
RPT 18W K
RPT 17W K K
R OK QSL 233. K K

9131 kHz, 20-12, 1017 UTC

RMKS 38.EEEEE RMKS 3892 TO 3412/3842 =
SVC QRW 3842 QRW L18 3412 1930 COMM 6982 AR AGN
NR 296 1800 RMKS 3892 TO 3412/3842 = SVC QRW 3842 QRW L183 412 1930
COMM 6982 AR
HR WK NR 11 QSL ?

3774 kHz, 20-12, 1428 UTC

HR WK NR 0036 K
R HI NIL SK
R VV CD3 DE EMHYN K
R QSA 2 HR WK NR .036 K
R HR NIL SK
VV 4.EEEEE
VV 84.. DE JDY. K
R QSA 2 HR WK NR 0036 K
R HR NIL SK (1432z)
R GF4D EEEEEEE
.FV5 DE .HNE K
R ER4E DE NKEI QSA ? QS AU
EEEEEE ER4A DE EEEEEEE
R ER4T DE NKEI QSA 2 QSA 2 ? K
R QSA EEEEE R QSA 2 QSA ? K EEEEEEE
ER3 EEEEEEE
R ER4T DE NKEI R QSA 2 QSA ? K
R R .. N QSA 2 QSA ? K
R ER4T DE .DYH R QSA 2 QSA ? K
4 DE EEEEEEE
R ER8D EEEEEEE
R ER4T DE 4DFM EEEEEEE
R ER4T DE D4RF R QS EEEEE AR EEEEE
R R 4TD EEEEEEE
R ER4T DE D4RF R QSA 2 QSA ? K
R 4.AW2 DE OHYN K
R ER48 DE MUSN R QSA 7 EEEEE
R ER.. DE MUSN QSA 2 EEEEE
AR EEEEE
R ER8 DE MUSN QSA 2 QEEEEEE
R QSA 2 HR NIL SK K
NR ..36 K
R HR WK NR 0036 K
R NIL SK
R K
R R..4ERE4 VA4A DE ... K
R ER4T DE .YT. K
R M.2 QSA EEEEEEE
R R R EEEEE
R ER4T DY.. R QSA 2 QSA ? K
QSA 2
HR MSG GA K
R GA
R HR MSG GA MSG NR .01 CW 096. 1228 ..33 43 MK EEEEE
IR EEEEE
HR MSG EEEEE
MSG GA MSG NR 001 CEEEEEE
R HR MGS EEEEEEE
R HR MSG GA MG EEEEEEE
R HR MSG GA MSG NR 001 CW .8 1220 230 A EEEEE=/ EEEEE
R HR MSG GA MSG NR 001 CW 99 1220 2300 RMKS .542 TO 4321 =
NA.. HU3T A3D. ATNU UT.7 4.N5 .T37 5A.. (Cont'd)

5588 kHz, 20-12, 1030 UTC

NR 080 CK .. 44 1220 18.. =
T.4N DT3. 5D5T .5D4 N.4. TD. 5TD3 (Cont'd)
MSG NR 080 CK 301 44 1220 1830 =
T34. .T3U 5D5N 65D4 NU4D 5TD3 4T53 NA57 TT.7 TTTU 3TU7 (Cont'd)

3330 kHz, 3-12, 1610 UTC

TA73 U5T4 7D54 56D4 (Cont'd)
III = 4UD4
MSG NR 121 CK 301 34 1231 0000 =
NTAN 5D.. DU6T 5367 NAUT 7DD. 56DU .6U4 ..7 TTT. (Cont'd)
III = 4UD4



MC03

Chinese Air Defense

3699 kHz, 05-12, 1800 UTC

653 UA6U73 57765A4 AT3 5N
653 UA6U7A 6474373 AT5 5N
653 UA6U7T 6673533 AA3 OUTT
653 UA6U7A 64744 ..AT5 TUTT
653 UA5N3N 75N33DU AAT TU11

3700 kHz, 20-12, 2128 UTC

653 UA67DD 5DD6N7N AT6 UD
653 UA67NA 5ND75D6 AAU UD
653 UA67DT 66N34DU AT5 UN
653 UA6DT3 55D7736 AAU UN
653 UA6DTA 55D3N7D AT6 UN



UM01

Unid CQ station

3580 kHz, Unid station, located in Siberia

02-12, 1723 UTC, CQ M 13	05-12, 1749 UTC, CQ M 13	13-12, 0128 UTC, CQ M 12
02-12, 1942 UTC, CQ M 13	06-12, 1018 UTC, CQ M 8	15-12, 1014 UTC, CQ M 12
02-12, 2017 UTC, CQ M 12	06-12, 1454 UTC, CQ M 8	15-12, 1934 UTC, CQ M 13
03-12, 0036 UTC, CQ M 12	06-12, 1840 UTC, CQ M 8	16-12, 1824 UTC, CQ M 10
03-12, 1145 UTC, CQ M 8	07-12, 0946 UTC, CQ M 8	17-12, 1727 UTC, CQ M 8
03-12, 2256 UTC, CQ M 6	10-12, 0215 UTC, CQ M 8	24-12, 1602 UTC, CQ M 8
04-12, 1243 UTC, CQ M 10	10-12, 0936 UTC, CQ M 8	25-12, 1827 UTC, CQ M 1
04-12, 1818 UTC, CQ M 13	10-12, 1812 UTC, CQ M 8	
05-12, 0337 UTC, CQ M 17	10-12, 2211 UTC, CQ M 9	



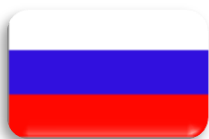
UM10

Unid 10-minutes net

3809 kHz, 02-12, 1736 UTC: ZJL4
3314 kHz, 02-12, 2015 UTC: OUCH
3696 kHz, 10-12, 1854 UTC: D6AN
3860 kHz, 20-12, 1455 UTC: KTR4
3695 kHz, 20-12, 1456 UTC: D6AN
3695 kHz, 20-12, 1521 UTC: D6AN
3236 kHz, 24-12, 1557 UTC: D6AN

VARIOUS MODES

M42 & X06



Modes:
Various digital modes, CW,
Tones (Мазелка / Mazielka)

Russian Government & Intelligence



Mazielka transmissions

Frequency	Date	UTC	Day	Remarks
10213	11-12	1540	Thu	Mazielka. Sequence: 263145
16116	12-12	1415	Fri	Mazielka. Sequence: 215346
16116	12-12	1415	Fri	Mazielka. Sequence: 215346
15710	14-12	1136	Sun	Mazielka. Sequence: 261453
18575	18-12	1239	Thu	Mazielka. Sequence: 352416
13951	18-12	1245	Thu	Mazielka. Sequence 352416
14595	21-12	1314	Sun	Mazielka. Sequence: 452163
17463	22-12	1203	Mon	Mazielka. Sequence: 256134
17471	22-12	1330	Mon	Mazielka. Sequence: 216354
16154	25-12	0855	Thu	Mazielka. Sequence 153624
16154	25-12	0855	Thu	Mazielka. Sequence: 153624
11561	25-12	1607	Thu	Mazielka. Sequence: 263145
11125	25-12	1609	Thu	Mazielka. Sequence: 216354
9351	25-12	1616	Thu	Mazielka. Sequence: 216354
10535	25-12	1618	Thu	Mazielka. Sequence: 564213
8170	28-12	1735	Sun	Mazielka. Sequence: 145632
14650	29-12	1231	Mon	Mazielka. Sequence: 215346
18660	31-12	1220	Wed	Mazielka. Sequence: 621543
12207	31-12	1500	Wed	Mazielka. Sequence: 215346
13441	25-12	1558	Thu	Mazielka. Sequence: 123456
9127	25-12	1613	Thu	Mazielka. Sequence: 123456

Is Russia back in Cuba???? It certainly looks like that. Mike copied the kind of RTTY transmission that was sent via the Cuban facilities in the past. The Russian transmitted from Cuba on link 00117 messages to HZW, and now the same link is being used for messages to SWO. Mike says that the transmission was due south to his position in the USA. Christian also copied a similar transmission on link 50024 to GRV. We don't know where this transmission came from.

20841kHz, 09-12, 2000 UTC, Baudot 75/450 followed by 45 tone OFDM modem traffic.

SWO 1/320

11100 00117 58913 01012 8xxxx

RY

FSK 50/500 transmissions

Frequencies are often coded. Example: QSY 49421. This is obviously not a “normal” frequency. The codes change on a daily basis, or sometimes even per hour. You need the code to find the real frequency.

K4MT de NT9P K and ZZC ZVP K.

9206 kHz, 26-12, 1342 UTC, FSK 50/500 + CW op-chat

19

4562 kHz, 27-12, 0341 UTC, FSK 50/500 + CW op-chat

7ZGR de PR6O K.

QSA

ZZC ZVP K.

SLV K.

R 678 0345 QTC1 K.

SLD into RTTY ends with op-chat

NIL SK

5469 kHz, 27-12, 1545 UTC, CW op-chat

AIFH wkg CDAP.

QSO QRU ?

QRV

5931 kHz, 28-12, 1541 UTC, FSK 50/500 + CW op-chat

AIFH de CDAP K.

QSA ZZC K into RTTY ends with op-chat

QRU? K.

ZZC ZVP

R 174 1547

NIL SK

5469 kHz, 28-12, 1541 UTC, FSK 50/500 + CW op-chat

CDAP de AIFH K.

QSA QRV

R 299 1543 K.

QTC1 K. into RTTY ends with op-chat

CFM K

NIL SK

4538 kHz, 28-12, 1710 UTC, CW op-chat

DATZ de VFGK

QSA 1

QSY 78 239 (QSY 4816 kHz)

4816 kHz, 28-12, 1710 UTC, CW op-chat

VFGK de DATZ K (QSY 4538 kHz)

4816 kHz, 29-12, 1719 UTC, CW op-chat

VFGK de DATZ

QSY 79134 K

QSY 70843 K

QSY 71155 K

11553 kHz, 30-12, 0813 UTC, FSK 50/500 + CW op-chat

JONP de NWLM K.

QSA QRV SLV

R 567 0824 QTC1 K.

ZZC ZVP into RTTY ends with op-chat

CFM K NIL SK

12072 kHz, 30-12, 0813 UTC, FSK 50/500 + CW op-chat

NWLM de JONP K.

QSA QTC 1 ZZC K. into RTTY ends with op-chat

CFM K. QRU? K.

QRV K. R 321 0828

NIL SK

11553 kHz, 31-12, 0815 UTC, CW op-chat

JONP de NWLM K

JONP de NWLM QSA3 QSA ? K

JONP de NWLM QTC 1 QRV ? K

JONP de NWLM NW = 331 150 31 0800 2015 = 0820 K NWLM de JONP R 331 0820 K JONP de NWLM CFM K QRU ? K NWLM de
 JONP QTC 1 QRV ? K JONP de NWLM C K NWLM de JONP NW 482 150 31 0805 2015 = 0825 K JONP de NWLM R 482 0825 K
 NWLM de JONP CFM NIL SK JONP de NWLM NIL SK

12072 kHz, 31-12, 0815 UTC, CW op-chat

NWLM de JONP K

NWLM de JONP QSA 4 K QRU ? K

NWLM de JONP QRV K

Frequency list 50/500 net

3884	9234
4032	9296 NT9P / K4MT
4538 DATZ / VFGK	9964
4562 7ZGR / PR6O	10153
4816 VFGK / DATZ	10165 NT9P / K4MT
4819 LTJQ / LENJ	10181
5424	10231
5461 (also frequently used by RCV, Navy BSF)	10672
5462 7ZGR / PR6O	10874
5469 AIFH / CDAP	11553 NWLM / JONP
5751 DYFS / xxxx (also frequently used by RIT, Navy NF)	11627
5845	12072 JONP / NWLM
5913 CDAP / AIFH	12077
6772	12188
6773 7ZGR / PR6O and F3CO / AB3D	13371
6776 PURN / YORB	13410
6785	13464
6786 NT9P / K4MT	13518
6838 (also frequently used by Russian naval)	13892
6925 PRAT / LKDW	14381
7512	14656
7790 NT9P / K4MT	14876
7813 PRAT / LKDW	14907
7833 PRAT / LKDW	14981
8058 NT9P / K4MT	16120
8067	16227
8123	16271
9043	16321
9051	16333
9072	18492
9201 NT9P / K4MT	19579
9206 NT9P / K4MT	19980

FSK 200/1000 transmissions

9176/7624 kHz, 02-12, 1200/1210 UTC, FSK 200/1000

Block No 1 : Link ID 45136 Msg Number 087 : Msg Type 07145 : Group Count (?) 177 53088 44581 01810 20062 58024 36627
 19778 51571

7845/5269 kHz, 02-12, 1700/1710 UTC, FSK 200/1000

Block No 1 : Link 20501 Msg Nr 002 Type 07145 Gr-4 on: 19104 00000 00000 01627 16418 35156 00893 42444

17478/15838/13387 kHz, 03-12, 1220/1240/1250 UTC, FSK 200/1000

Msg No 160 Type 07145 4 Groups on Block No 1 : Link 53277: 61012 00000 00000 00175 19866 00418 00893 48538

7477 kHz, 04-12, 0720 UTC, FSK 200/1000

Block No 1 : Link ID 45137 : 3rd of month : Msg Number 095 : Msg Type 07145 : Group Count (?) 179
01648 25906 14058 07951 01146 03130 40113 15562

7622 kHz, 04-12, 1210 UTC, FSK 200/1000

Block No 1 : Link ID 45137 : Msg Number 095 : Msg Type 07145 : Group Count (?) 180 01648 25906 14058 04990 01146 03130
38786 49107

9176/7622 kHz, 08-12, 1200/1210 UTC, FSK 200/1000

Block No 1 : Link ID 45136 : Msg Number 100 : Msg Type 07145 : Group Count (?) 43 10904 04105 58662 11540 65099 05144
12369 16138

7843/5267 kHz, 09-12, 1700/1710 UTC, FSK 200/1000

Block No 1 : Link ID 20501 : Msg Number 002 : Msg Type 07145 : Group Count (?) 4 56988 00000 00000 00610 12857 34134
00893 05922

7622 kHz, 10-12, 1210 UTC, FSK 200/1000

Block No 1 : Link ID 45137 : Msg Number 107 : Msg Type 07145 : Group Count (?) 247 11160 14773 13364 25043 01082 33049
64974 10232

9176/7622 kHz, 11-12, 1200/1210 UTC, FSK 200/1000

Block No 1 : Link ID 45136 : Msg Number 110 : Msg Type 07145 : Group Count (?) 191 17896 10272 50381 19368 55182 02716
44977 29573

11044/9063/7477 kHz, 12-12, 0700/0710/0720 UTC, FSK 200/1000

Block No 1 : Link ID 45136 : Msg Number 057 : Msg Type 07145 : Group Count (?) 4 15684 00000 00000 00231 58024 33569
00893 15404

16312 kHz, 13-12, 1020 UTC, FSK 200/1000

Block No 1 : Link ID 45057 : Msg Number 165 : Msg Type 07145 : Group Count (?) 5 27012 35016 26188 32825 46156 08183
21540 55197

18189/16125 kHz, 14-12, 0900/0910 UTC, FSK 200/1000

Block No 1 : Link ID 45114 : Msg Number 237 : Msg Type 07145 : Group Count (?) 212 50864 33889 24990 09910 53087 35663
31451 38612

20949/18641 kHz, 14-12, 1000/1010/1020 UTC, FSK 200/1000

Block No 1 : Link ID 45057 : 11th of month : Msg Number 165 : Msg Type 07145 : Group Count (?) 5
27012 35016 26188 32825 46156 08183 21540 55197

19846/1747115665 kHz, 14-12, 1100/1110/1120 UTC, FSK 200/1000

Block No 1 : Link ID 36882 : Msg Number 232 : Msg Type 07145 : Group Count (?) 82 12440 08176 38907 13302 48247 35862
01283 27598

11044/9063/7477 kHz, 15-12, 0700/0710/0720 UTC, FSK 200/1000

9176/7622 kHz, 15-12, 1200/1210 kHz, FSK 200/1000

Block No 1 : Link ID 45136 : 12th of month : Msg Number 115 : Msg Type 07145 : Group Count (?) 235
10132 60295 56471 32789 58024 00466 49409 24394

9176/7622 kHz, 16-12, 1200/1210 UTC, FSK 200/1000

Block No 1 : Link ID 45137 : 15th of month : Msg Number 117 : Msg Type 07145 : Group Count (?) 67
12352 57892 24042 17876 01146 39622 65036 24981

17444/15872 kHz, 16-12, 1400/1410 UTC, FSK 200/1000

Block No 1 : Link ID 32799 : 16th of month : Msg Number 090 : Msg Type 07145 : Group Count (?) 4
07836 00000 00000 00361 14796 02651 00893 49045

5434/4617 kHz, 16-12, 2200/2210 UTC, FSK 200/1000

Block No 1 : Link ID 45057 : 16th of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4
07836 00000 00000 00487 44730 34607 00893 10921

9176/7622 kHz, 17-12, 1200/1210 UTC, FSK 200/1000

Block No 1 : Link ID 45137 : 16th of month : Msg Number 122 : Msg Type 07145 : Group Count (?) 225
15240 57569 04023 17264 09959 34703 33157 36409

17476/15836/13385 kHz, 17-12, 1230/1240/1250 UTC, FSK 200/1000

Block No 1 : Link ID 53277 : 17th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 02348 15966 34095 00893 5252813385

5089/4563 kHz, 17-12, 1710/1720 UTC, FSK 200/1000

Block No 1 : Link ID 03667 : 16th of month : Msg Number 080 : Msg Type 07104 : Group Count (?) 117
57100 31601 41013 19656 37602 07564 24265 53384

11044/9063/7477 kHz, 18-12, 0700/0710/0720 UTC, FSK 200/1000

9176/7622 kHz, 18-12, 1200/1210 UTC, FSK 200/1000

Block No 1 : Link ID 45136 : 17th of month : Msg Number 125 : Msg Type 07145 : Group Count (?) 169
35104 25091 19812 05765 55182 04017 38818 15465

11044/9063/7477 kHz, 19-12, 0700/0710/0720 UTC, FSK 200/1000

Block No 1 : Link ID 45136 : Corrupt Date : Msg Number 057 : Msg Type 07145 : Group Count (?) 4
15684 00000 00000 00912 58024 32913 00893 36796

18189/16125/14367 kHz, 21-12, 0900/0910/0920 UTC, FSK 200/1000

Block No 1 : Link ID 45115 : 18th of month : Msg Number 240 : Msg Type 07145 : Group Count (?) 100
55312 02440 03766 27494 06443 06480 51682 05918

19846/17471 kHz, 21-12, 1100/1110 UTC, FSK 200/1000

Block No 1 : Link ID 36882 : 18th of month : Msg Number 237 : Msg Type 07145 : Group Count (?) 108
37996 09616 61362 15169 28573 34993 19372 28248

11487/9232/7819 kHz, 21-12, 1530/1540/1550 UTC, FSK 200/1000

Block No 1 : Link ID 20501 : 21st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
34156 00000 00000 00358 12857 36342 00893 16476

11044/9053/7477 kHz, 22-12, 0700/0710/0720 UTC, FSK 200/1000

9176/7622/5787 kHz, 22-12, 1200/1210/1220 UTC, FSK 200-1000

Block No 1 : Link ID 45137 : 19th of month : Msg Number 130 : Msg Type 07145 : Group Count (?) 245
55776 57569 04023 20002 07583 00370 33438 37985

9176/7622/5787 kHz, 23-12, 1200/1210/1220 UTC, FSK 200/1000

Block No 1 : Link ID 45136 : 22nd of month : Msg Number 132 : Msg Type 07145 : Group Count (?) 173
23192 03253 64334 30099 65099 36294 02920 32359

17444/14872/13521 kHz, 23-12, 1400/1410/1420 UTC, FSK 200/1000

Block No 1 : Link ID 32799 : 23rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
01972 00000 00000 01228 14796 35619 00893 20342

9228/7845/5267 kHz, 23-12, 1650/1700/1710 UTC, FSK 200/1000

Block No 1 : Link ID 20501 : 23rd of month : Msg Number 140 : Msg Type 07145 : Group Count (?) 4
62824 00000 00000 00465 12857 03465 00893 34278

11044/9063/7477 kHz, 24-12, 0700/0710/0720 UTC, FSK 200/1000

Block No 1 : Link ID 45137 : 23rd of month : Msg Number 137 : Msg Type 07145 : Group Count (?) 33
12336 54405 00969 24915 01146 38531 12298 15615

20963/18619/16348 kHz, 24-12, 1015/1025/1035 UTC, FSK 200/1000

Block No 1 : Link ID 20492 : 12th of the month : Msg Number 062 : Msg Type 07145
48500 13925 28839 36078 31284 33521 40014 23111

20949/18641/16312 kHz, 27-12/28-12, 1000/1010/1020 kHz, FSK 200/1000

Block No 0 : Total Message Size 39 blocks : This transmission contains one message.

fd,12,b0,e6,00,00,00,00,40,00,c0,00,10,00,00,00,00,0d,20,0e,00,08,00,06,c0,0e,b0,0a,70,0d,a0,0a,50,0a,a0,0a

Block No 1 : Link ID 45057 : 11th of month : Msg Number 165 : Msg Type 07145 : Group Count (?) 5

27012 35016 26188 32825 46156 08183 21540 55197

19846/17471/15665 kHz, 27-12/18-12, 1100/1110/1120 UTC, FSK 200/1000

Block No 0 : Total Message Size 22 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,20,00,a0,00,10,00,00,00,00,03,20,04,00,0b,00,0e,40,0a,b0,04,60,0b,90,03,f0,00,c0,08

Block No 1 : Link ID 36882 : 25th of month : Msg Number 240 : Msg Type 07145 : Group Count (?) 132

30208 45104 19645 13813 43092 01192 50986 07374

18190 kHz, 28-12, 0900/0910/0920 UTC, FSK 200/1000

Block No 1 : Link ID 45114 : 26th of month : Msg Number 242 : Msg Type 07145 : Group Count (?) 112

34513 52872 21917 26073 56490 32979 46691 34653

11044/9063/7477 kHz, 29-12, 0700/0710/0720 UTC, FSK 200/1000

Block No 0 : Total Message Size 39 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,40,00,c0,00,10,00,00,00,00,06,90,07,00,04,00,03,60,07,58,05,38,06,d0,05,28,00,10,05

Block No 1 : Link ID 45137 : 26th of month : Msg Number 145 : Msg Type 07145 : Group Count (?) 3

10677 29079 34066 18694 07583 06071 56202 53103

9176/7622 kHz, 20-12, 1200/1210 UTC, FSK 200/1000

Block No 0 : Total Message Size 39 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,40,00,c0,00,10,00,00,00,00,0d,20,0e,00,08,00,06,c0,0e,b0,0a,70,0d,a0,0a,50,0a,a0,0a

Block No 1 : Link ID 45169 : 26th of month : Msg Number 145 : Msg Type 07147 : Group Count (?) 3

10685 29079 34066 18694 07583 06071 56202 53103

7622/5787 kHz, 30-12, 1210/1220 UTC, FSK 200/1000

Block No 0 : Total Message Size 61 blocks : This transmission contains 2 messages.

7d,12,b0,e6,00,00,03,00,74,00,80,00,20,00,00,00,00,04,20,0d,00,08,00,00,5d,00,33,04,39,09,17,02,7a,0b,a3,05

Block No 1 : Link ID 45136 : 29th of month : Msg Number 147 : Msg Type 07145 : Group Count (?) 171

22341 08741 56122 39118 55182 34709 06934 08823

17444/15872/13521 kHz, 30-12, 1400/1410/1420 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 32799 : 30th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

21113 00000 00000 00781 19279 35883 00893 16399

5434/4617/4014 kHz, 30-12, 2200/2210/2220 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 45057 : 30th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

43325 00000 00000 02007 44730 35558 00893 16754

11044/9063/7477 kHz, 31-12, 0700/0710/0720 UTC, FSK 200/1000

Block No 0 : Total Message Size 44 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,50,00,60,00,10,00,00,00,00,02,20,02,00,03,00,0a,a0,03,80,0b,40,0d,90,05,e0,05,10,0d

Block No 1 : Link ID 45137 : 30th of month : Msg Number 152 : Msg Type 07145 : Group Count (?) 37

11757 39347 60966 34423 07583 40578 15068 50874

FSK 200/500 transmissions

8129/6822/4469 kHz, 13-12, 1810/1820/1830 UTC, FSK 200/500

RYYRYR 00000+++++++162)5761

20562/18194 kHz, 20-12, 1300/1310 UTC, FSK 200/500

RYYRYR 00000+++++++162)57



XPA

7756/9056/10656 kHz, 13-12, 0700/0720/0740 UTC

706 706 706 1

06323 00231 27595 88088 53856 35846 66916 43621 78860 40997
90116 53301 25429 56102 24567 12776 98956 07398 38420 52473
34749 66432 28111 62566 63828 39234 97615 87298 35297 99964
20920 66097 58219 86125 75889 88875 89732 78993 97825 61649
63829 12339 04650 44197 07905 49722 90675 77019 95447 61477
81753 00848 58610 08652 06373 87181 94275 49568 28718 46262
23870 69964 24524 57563 01873 90022 43221 63176 82735 96227
56685 80521 21036 45084 19741 61021 17091 29008 05794 79739
30682 96985 81065 09145 49323 58095 87181 84623 18488 14215
10532 05083 46021 87110 88814 88999 16990 94997 52450 16176
85264 74763 42959 08961 06703 65973 77066 57365 44691 58458
67294 50378 19482 18122 34531 98923 93849 04628 24094 85247
09348 10688 88291 58959 81394 59709 11204 79440 71006 61888
23496 76564 56531 69110 91445 98812 82445 05571 70346 46870
32270 14600 64602 52297 24351 59139 56163 84341 65407 12103
18436 46673 67214 23891 05900 28309 60006 03502 16318 54250
41685 17862 34481 32244 03787 08124 15212 72317 85206 63250
21717 64997 43933 75284 68528 02291 32106 71471 40195 45701
84222 91462 73138 68978 15682 32364 50847 79319 59851 80225
28846 13246 13215 46661 30582 43691 19780 41090 16053 10059
41447 19336 03055 54536 96397 29638 79029 91075 37049 74610
20108 48247 20312 80928 84098 92972 43602 75671 92672 45686
22669 35164 50431 89419 51795 83702 68489 15197 18979 38361
81389 06958 77017 44303

7756/9056/10656 kHz, 24-12/27-12, 0700/0720/0740 UTC

706 706 706 1

05583 00215 40320 51542 11092 18515 98538 74920 70362 36650
21998 78312 41037 84779 48418 32414 43386 65202 72145 97911
01610 79283 44395 14236 86974 35107 38626 86051 22566 43951
57201 71541 74940 04297 60519 45115 27821 16437 13779 83470
19817 24120 10988 34870 22347 49628 63283 31075 12605 96073
55993 34488 46515 93239 84677 11015 27152 76970 53347 31918
84755 22910 84627 32415 68252 36385 82271 47675 12728 80724
97905 46079 21504 94280 40177 96604 21423 03227 79421 09731
46606 94284 90951 47452 61176 83509 14015 88346 25357 98984
47098 25446 07564 78325 83706 53130 27270 75714 20378 84630
57081 15314 86416 35705 61243 10834 26357 30653 17052 75403
90435 11120 19439 45764 50786 37625 33617 35838 11200 91236
95678 71330 39286 75359 91803 78440 93750 31869 78668 47125
21781 76097 34317 24967 95769 54878 05632 42285 86572 54208
06727 72506 16778 78938 03977 08281 08835 90236 24569 99428
94082 89072 69054 76919 03652 10320 70599 75172 38332 60815
06858 57999 74772 16951 99480 47752 27695 69329 89868 45908
77629 90321 11289 97308 31426 27541 65623 49847 00516 12142
44072 23462 85532 70331 75003 45075 13015 98325 28943 78826
79166 15688 81465 77262 34433 81471 95815 22542 54768 60613
91222 41109 98202 85894 81186 27457 92170 22692 93946 19628
91530 97656 29070 82138 00187 17256 91602 23572

9056/10656 kHz, 17-12, 0720/0740 UTC

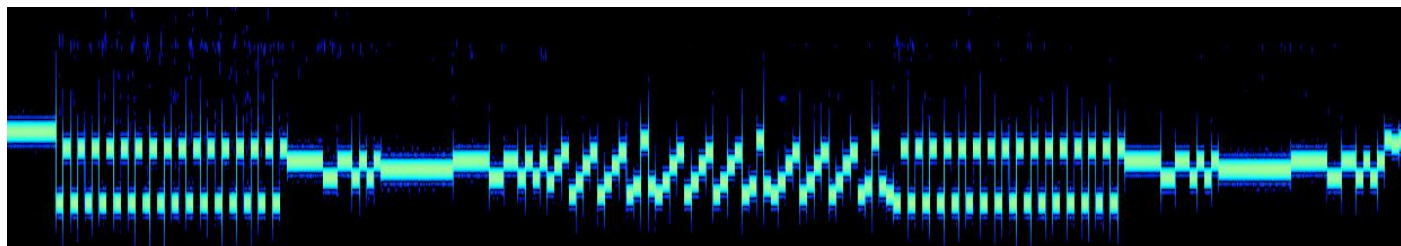
706 706 706 000

06211 00001 00000 10140

7756/9056/10656 kHz, 31-12, 0700/0720/0740 UTC

706 706 706 000

04196 00001 00000 10140



XPA2

14538/13538/12138 kHz, 02-12, 1300/1320/1340 UTC

06337 00001 00000 00030

15967/13884/12217 kHz, 05-12, 1400/1420/1440 UTC

08652 00001 00000 10140

15967/13884/12217 kHz, 12-12, 1400 UTC

01947 00085 22015 94563 77879 04040 31797 66873 83957 05269

98001 26232 27943 98710 35895 08661 87223 89534 93951 47146

88796 56002 09684 98082 20867 09780 77658 60014 44261 74620

67408 23087 56855 58312 53565 33307 89268 75876 75642 01908

06683 21318 51486 51588 51303 54204 79735 21764 83723 66540

06704 86967 28611 56789 82377 97627 48500 40398 50041 34807

93973 44288 62890 07713 49107 77030 30372 59239 88852 27623

88231 43092 94388 72476 31304 16117 02692 80870 67147 80439

31249 93164 57842 62193 15273 16176 87149 01650

14538/13538/12138 kHz, 14-12, 1300/1320/1340 UTC

01515 00001 00000 10140

14538/13538/12138 kHz, 16-12, 1300/1320/1340 UTC

06762 00001 00000 10140

15861/14761/13561 kHz, 17-12, 0800/0820/0840 UTC

04715 00001 00000 10140

15967/13884/12217 kHz, 19-12, 1400/1410/1420 UTC

02293 00001 00000 10140

15967 kHz, 20-12, 1400 UTC

08065 00001 00000 10140

14538/13538/12138 kHz, 21-12/23-12, 1300/1320/1340 UTC

01189 00093 43982 42353 28942 10392 36456 48032 85948 32586
92313 30016 75982 49778 88698 21008 64206 18536 43866 54325
59657 89552 90709 60082 55721 72847 78295 26988 40141 02007
26220 81096 60354 99220 20357 97319 58006 33334 63938 95139
90263 50531 30467 38074 51179 23913 52052 32899 42772 37118
66718 58462 65882 13092 31166 04315 84716 63737 40997 08977
42377 76189 90687 33767 68570 16164 41697 35620 69220 74773
76746 54774 88492 43745 81104 38800 85047 25348 16231 82991
08928 42182 35575 38942 26600 79192 05877 07123 51318 84173
60037 05212 72108 90756 58044 26600

15851/14761/13561 kHz, 22-12, 0800/0820/0840 UTC

01477 00001 00000 10140

15967 kHz, 26-12, 1400 UTC

00563 00077 26100 66068 80360 57855 44216 83357 76017 55295
76537 92929 05104 68720 63562 39257 00403 30200 45730 12078
53364 71571 17473 79030 67495 50358 86284 37463 57496 44256
55129 14997 40364 42572 79974 58299 16872 94211 42062 55672
89754 22094 08820 04584 32227 72772 83700 29480 84000 21040
26756 33203 37485 89648 53341 95375 15624 50502 89855 61887
12626 79293 17996 69955 91602 18653 22315 65592 56812 54457
80689 95710 45901 51357 02259 01928 41144 50338 34917 36564

13884/15967/12217 kHz, 27-12, 1420 UTC

09941 00001 00000 10140

14538/13538/12138 kHz, 28-12/30-12, 1300/1320/1340 UTC

03391 00085 91826 82153 55612 38035 43799 72888 85170 48553
62208 83971 42626 46399 37584 02040 09127 03210 98394 89291
08039 34244 32084 08762 26659 50135 89276 38961 34642 75930
67551 03560 27596 50146 82088 17398 90756 18659 86463 03190
93298 43817 67747 35351 06791 82189 59148 41993 82117 60090
95251 47904 23199 51047 98141 26206 99656 43896 06595 68194
78226 27346 02327 09374 51505 71928 10861 78547 41275 43102
86086 73311 55132 50500 55750 14486 81447 67844 23205 26633
87211 53396 58256 31130 11405 76732 75216

15861/14761/13561 kHz, 29-12, 0800/0820/0840 UTC

05695 00181 16069 87347 37955 43784 73154 63992 12853 21150
43845 92826 75663 24608 39464 56760 04184 61560 50418 36490
80732 86470 18438 09935 39074 29235 63893 51804 85271 83147
60716 50231 00566 00308 63810 75177 85381 07752 48686 99574
02249 48364 12454 89395 27982 63520 72252 15609 81078 75179
88717 88154 28326 88402 28119 97626 24034 13710 29731 17288
97865 20849 99122 36210 47792 20336 30961 19842 18304 55366
44697 31681 92416 25039 48182 88830 38264 00299 88445 38890
81308 99103 96028 74758 84473 59143 19695 88880 20816 75377
08593 54369 51596 64442 34964 35783 27930 66699 96226 66918
78061 16375 85196 91526 82569 89306 71282 26267 82605 18918
40490 77812 39121 27886 96670 07827 03078 47446 37644 83633
31378 97203 62439 55492 22113 38451 03943 94912 52461 86655
07435 79329 22000 00973 75782 29254 19264 07776 55206 40812
94386 19558 82603 15827 52358 55088 95564 97181 80413 66990
02808 22452 94971 72911 62515 70459 06364 49315 40255 95771
38311 45486 86025 65173 83721 92082 03208 94601 19770 97520
41927 64603 87147 09934 09176 51538 36238 53886 55884 05604
01874 49426 39130 53504



Polish Intelligence FSK transmissions

(E11 family)

Polish intelligence FSK transmissions. Mode: FSK 100/740Hz. There is a link between the digital and analog transmissions, both voice and morse. The schedules are supplied by Daniel (Danix). Thanks for that.

12630 kHz, 18-12, 1000/1005 UTC, FSK 100/740

Faux managed to decode the transmitted text. Great job, Faux !!!

ID: 0765

88888 88888 55900 78873 13712 16093 13108 21934 44442 59839
00131 29098 99672 35824 96012 35986 38112 62859 39158 44426
48708 16231 16912 01907 80946 59412 44538 39481 29154 00961
32706 39385 36720 92097 12779 62111 82385 50050 88888 88888
00036 00036

The message is identical to the S11a sent 15/10 minutes later, apart from the stutter groups, but the ID is completely different.

4840 24-12, 1940/1845 UTC, FSK 100/740

ID: 0272

88888 88888 34009 238__ 02342 45472 91330 13367 36806 30746
61599 07986 15270 58374 49582 17757 92143 12618 68494 77455
88914 20157 64103 70327 85312 53666 06638 35719 43663 39008
31068 53750 58627 02244 19699 73452 88888 88888
00038 00038

Frequency	Date	UTC	Day	Remarks	mode
16388	4-12	0730	Thu	Polish Intel.	FSK 100/625
16388	4-12	0735	Thu	Polish Intel.	FSK 100/625
9370	10-12	0850	Wed	Polish intel	FSK 100/625
10359	12-12	0655	Fri	Polish Intel.	FSK 100/740
4841.6	12-12	1943	Fri	Polish intel	FSK 100/750
9370	15-12	0845	Mon	Polish intel.	FSK 100/740
9370	15-12	0850	Mon	Polish intel.	FSK 100/740
12630	15-12	1000	Mon	Polish intel.	FSK 100/740
12630	15-12	1005	Mon	Polish intel.	FSK 100/740
15915	15-12	1525	Mon	Polish intel.	FSK 100/750
15915	15-12	1530	Mon	Polish intel.	FSK 100/750
5831	17-12	0300	Wed	Polish intel, null message	FSK 100/740
5831	17-12	0305	Wed	Polish intel, null message	FSK 100/740
9370	17-12	0845	Wed	Polish intel.	FSK 100/470
9370	17-12	0850	Wed	Polish intel.	FSK 100/470
5815	17-12	1005	Wed	Polish intel, null message	FSK 100/740
5815	17-12	1010	Wed	Polish intel, null message	FSK 100/740
8102	17-12	1030	Wed	Polish intel, null message	FSK 100/740
8102	17-12	1035	Wed	Polish intel, null message	FSK 100/740
4840	17-12	1430	Wed	Polish intel.	FSK 100/470
4840	17-12	1435	Wed	Polish intel.	FSK 100/470
7772	18-12	0630	Thu	Polish Intel.	FSK 100/740
16388	18-12	0730	Thu	Polish Intel.	FSK 100/740
16388	18-12	0735	Thu	Polish Intel.	FSK 100/740

Frequency	Date	UTC	Day	Remarks	mode
12630	18-12	1000	Thu	Polish Intel. 0765 88888 88888 55900 78873 13712 16093 ... 62111 82385 50050 88888 88888 00036 00036	FSK 100/740
12630	18-12	1005	Thu	Polish Intel. 0765 88888 88888 55900 78873 13712 16093 ... 62111 82385 50050 88888 88888 00036 00036	FSK 100/740
7499	19-12	0900	Fri	Polish intel.	FSK 100/500
7499	19-12	0905	Fri	Polish intel.	FSK 100/500
9576	19-12	1005	Fri	Polish intel.	FSK 100/740
9576	19-12	1010	Fri	Polish intel.	FSK 100/740
13575	19-12	1405	Fri	Polish intel.	FSK 100/740
13575	19-12	1410	Fri	Polish intel.	FSK 100/740
5815	20-12	1005	Sat	Polish Intel.	FSK 100/740
5815	20-12	1010	Sat	Polish Intel.	FSK 100/740
15915	21-12	1525	Sun	Polish intel. Null msg	FSK 200/740
15915	21-12	1530	Sun	Polish intel. Null msg	FSK 200/740
6836	22-12	0800	Mon	Polish intel. Null msg	FSK 100/740
6836	22-12	0805	Mon	Polish intel. Null msg	FSK 100/740
9370	22-12	0845	Mon	Polish intel. Null msg	FSK 100/740
9370	22-12	0850	Mon	Polish intel. Null msg	FSK 100/740
9576	23-12	1005	Tue	Polish intel. Msg	FSK 100/740
9576	23-12	1010	Tue	Polish intel. Msg	FSK 100/740
8102	23-12	1030	Tue	Polish intel. Msg	FSK 100/740
8102	23-12	1030	Tue	Polish intel. Msg	FSK 100/740
5463	23-12	1520	Tue	Polish intel. Null msg	FSK 100/740
5463	23-12	1525	Tue	Polish intel. Null msg	FSK 100/740
9370	24-12	0850	Wed	Polish intel. Null msg	FSK 100/740
8102	24-12	1030	Wed	Polish intel. Null message with ID 0325	FSK 100/740
8102	24-12	1035	Wed	Polish intel. Null message with ID 0325	FSK 100/740
15915	24-12	1140	Wed	Polish intel. Null message with ID 0217	FSK 100/740
15915	24-12	1145	Wed	Polish intel. Null message with ID 0217	FSK 100/740
4840	24-12	1430	Wed	Polish intel. Null message with ID 0289	FSK 100/740
4840	24-12	1435	Wed	Polish intel. Null message with ID 0289	FSK 100/740
4840	24-12	1940	Wed	Polish intel. Msg with ID 0272: 88888 88888 34099 238__ 02342 ... 02244 19699 73452 88888 00038 00038	FSK 100/740
4840	24-12	1945	Wed	Polish intel. Msg with ID 0272: 88888 88888 34099 238__ 02342 ... 02244 19699 73452 88888 00038 00038	FSK 100/740
6836	29-12	0800	Mon	Polish intel. Null msg	FSK 100/740
6836	29-12	0805	Mon	Polish intel. Null msg	FSK 100/740
9370	29-12	0845	Mon	Polish intel. Message	FSK 100/740
9370	29-12	0850	Mon	Polish intel. Message	FSK 100/740
12630	29-12	1000	Mon	Polish intel. Null msg	FSK 100/740
12630	29-12	1005	Mon	Polish intel. Null msg	FSK 100/740
16388	30-12	0730	Tue	Polish intel. Null msg	FSK 100/740
16388	30-12	0735	Tue	Polish intel. Null msg	FSK 100/740
9370	31-12	0845	Wed	Polish intel. Msg	FSK 100/740
9370	31-12	0850	Wed	Polish intel. Msg	FSK 100/740
5815	31-12	1005	Wed	Polish intel. Null msg	FSK 100/740
5815	31-12	1010	Wed	Polish intel. Null msg	FSK 100/740

Digital transmissions, 15 minutes before analog					
Mode FSK, 100 bd, 740 Hz (formerly 625 Hz)					
The 740 Hz shift was introduced on December 4th, 2014, last 625 Hz TX was on December 10th					
Day	UTC	Jan Feb Nov Dec	Mar Apr Sep Oct	May Jun Jul Aug	ID
none found on December 18th, 2014 at 1715 and 1720					
none found on December 18th, 2014 at 1515 and 1520					
Monday	0800 + 0805	6836	?	?	434
Thursday					
none found on December 19th, 2014 at 815 and 820					
Monday	0845 + 0850	9370	?	?	554
Wednesday					
Monday	1000 + 1005	12630	?	?	765
Thursday					
none found on December 19th, 2014 at 1055 and 1100					
Monday	1525 + 1530	15915	?	?	221
Sunday					
none found on December 19th, 2014 at 440 and 445					
none found on December 20th, 2014 at 515 and 520					
Tuesday	0630 + 0635	7772	?	?	574
Thursday					
Tuesday	0655 + 0700	10359	?	14575	
Friday					
Tuesday	0730 + 0735	16388	?	?	
Thursday					
Tuesday	0900 + 0905	7499	?	?	353
Friday					
Tuesday	1005 + 1010	9576	?	?	
Friday					
Tuesday	1030 + 1035	8102	?	?	
Wednesday					
none found on December 16th and 17th, 2014 at 1245 and 1250					
none found on December 20th, 2014 at 1345 and 1350					
Tuesday	1520 + 1525	5463	?	?	797
Saturday					
none found on December 20th, 2014 at 1755 and 1800					
Wednesday	300 + 305	5831	?	?	321
Thursday					
none found on December 17th, 2014 at 0750 and 0755					
none found on December 17th and 18th, 2014 at 0915 and 0920					

Wednesday	1005 + 1010	5815	?	?	
Saturday					
Wednesday	1140 + 1145	15915	?	?	
Thursday					
Wednesday	1430 + 1435	4840	?	?	
Saturday					
none found on December 20th, 2014 at 1650 and 1655					
Wednesday	1940 + 1945	4840	?	?	272
Friday					
none found on December 18th, 2014 at 1305 and 1310					
Friday	1405 + 1410	13575	13575 (unconfirmed)	?	877
Sunday					



North Korean diplomatic stations

Modes: DPRK-ARQ 600/600 & DPRK-ARQ 1200/1200

22420.0 kHz, 7-12, 1417 UTC
17318.5 kHz, 16-12, 1335 UTC
18629.5 kHz, 21-12, 0944 UTC
18031.4 kHz, 21-12, 0944 UTC
16136.5 kHz, 24-12, 0848 UTC
18171.5 kHz, 24-12, 0848 UTC
16126.4 kHz, 24-12, 0848 UTC
19414.5 kHz, 24-12, 0848 UTC
18629.4 kHz, 24-12, 0848 UTC
18419.4 kHz, 24-12, 0848 UTC
16148.5 kHz, 24-12, 0848 UTC
20235.0 kHz, 30-12, 1823 UTC

N. Korean Embassy, Havana wkg unid embassy on 20450 kHz
N. Korean diplo
N. Korean Diplo
N. Korean Diplo
N. Korean diplo
N. Korean diplo
N. Korean diplo
N. Korean diplo
N. Korean diplo
N. Korean diplo
N. Korean diplo
N. Korean diplo
N. Korean diplo
N. Korean diplo
N. Korean diplo
N. Korean diplo
Unid North Korean Embassy, Europe/N.Africa



Egyptian diplomatic stations

Modes: SITOR-A 100/170 & Codan-9001

16086.7 kHz, 14-12, 1336 UTC
19122.0 kHz, 15-12, 1223 UTC
18666.0 kHz, 20-12, 1721 UTC
16237.0 kHz, 24-12, 1237 UTC
19334.7 kHz, 24-12, 1737 UTC
20136.7 kHz, 28-12, 1358 UTC
18189.7 kHz, 30-12, 1426 UTC

MFA Cairo clg 00009 Egyptian embassy Kuwait Codan chirp
44406: Egyptian Embassy, New Delhi to 99904: MFA Cairo Codan Chirp & 9001/3012
33304: Egyptian Embassy N'djamena to 99907: MFA Cairo (QSX 19666 kHz)
Codan 9001/3012 16 tone
MFA Cairo clg TVVP Egyptian Embassy, Abu Dhabi SITOR-A 100/170
Egyptian embassy, Bamako (KKVE) with ATU-80 opchat and traffic to MFA Cairo
SITOR-A 100/170
Egyptian Embassy Kampala tfc to MFA Cairo SITOR-A 100/170
Egyptian Embassy, Accra with ATU-80 simplex tfc to MFA Cairo headed ?jg: kwfk?
SITOR-A 100/170

UTILITY ROUND-UP



Unid stations

An interesting station was heard by Avare. Active on two frequencies. Probably tests. Recordings of both transmissions can be found on the N&O website.

6984 kHz, 15-12, 1320 UTC, LSB	Russian male repeating 8 4 8 4 8 4 NOMER 8 4 etc. till 1329 UTC. Live transmission. Same station as 6988 kHz
6988 kHz, 15-12, 1640 UTC, LSB	Russian male repeating 28 20 8 28 20 8 28 20 8 etc. till 1651 UTC. Live transmission. Same station as 6984 kHz



Intelligence news

Interesting stuff on Intelnews.org, Year in Review: The 10 Biggest Spy-Related Stories of 2014

<http://intelnews.org/2014/12/29/01-1618/>

<http://intelnews.org/2014/12/30/01-1619/>

RUSSIAN MILITARY TRANSCRIPTS

Below excerpts of the Russian military logs on UDXF. Contributions from Tom, Jim, Wolfgang, Al, DJPr



M32

Russian/CIS Military CW Stations

4648 kHz, 04-12, 0930 UTC	1ShchRF 85 780 PLYuS 7260 2368
5077 kHz, 29-12, 1109 UTC	MDZhB 81 062 VYeShYeNNYJ 2268 2567 (also in voice by S28)
5707 kHz, 29-12, 1408 UTC	WEGI ?8 479 NYeGRITOS 9974 2217
4648 kHz, 30-12, 0743 UTC	1ShchRF 87 128 ASKLYeTOK 0940 6698 PRYaNICHNIK 7958 8612
4648 kHz, 30-12, 0745 UTC	1ShchRF 89 005 VRYeMYeNShchIK 7909 6289 ARGINAZA 8115 6268
4648 kHz, 30-12, 0748 UTC	1ShchRF 71 4?? MOChKOVITYJ 0?59 6628 ASMANIT ?252 1569
4648 kHz, 30-12, 0754 UTC	1ShchRF 34 033 POLYSYeNIYe 9261 2197
4648 kHz, 30-12, 0757 UTC	1ShchRF 46 626 URYeTRA 1115 4595
4648 kHz, 30-12, 0801 UTC	1ShchRF 91 793 POLOJ 1546 2962 OTDANKA 3504 9804
4648 kHz, 30-12, 0803 UTC	1ShchRF 68 852 BITYeDTKA 2306 6074
4648 kHz, 30-12, 0810 UTC	1ShchRF 42 009 PROKONSUH 2302 7872 MOLVUSHA 1115 4714
4648 kHz, 30-12, 0815 UTC	1ShchRF 64 296 VREMENShchIK 7909 6289
4648 kHz, 30-12, 0819 UTC	1ShchRF 59 372 KRAPINA 6896 5206
4648 kHz, 30-12, 0827 UTC	1ShchRF 19 022 OTMYeLINA 6896 5783 HOLOTRAST 0192 1644
4648 kHz, 30-12, 0834 UTC	1ShchRF 08 907 TRYePYHANIYe 5358 8908
4648 kHz, 30-12, 0845 UTC	1ShchRF 27 552 BRYeZYeLYeJN 4939 8947 BRIOFIT 8922 3899
4648 kHz, 30-12, 0849 UTC	1ShchRF 68 123 OTNOGA 0570 4379
4648 kHz, 30-12, 0851 UTC	1ShchRF 94 222 POLITURNYJ 3655 7632
4648 kHz, 30-12, 0922 UTC	MSK7 85 017 POLUT'MA 9922 3973
4648 kHz, 30-12, 0927 UTC	MSK7 35 662 MOROZOBOIN 8378 5201

4648 kHz, 30-12, 0930 UTC
 4648 kHz, 30-12, 0933 UTC
 4648 kHz, 30-12, 0935 UTC
 4648 kHz, 30-12, 0942 UTC
 4648 kHz, 30-12, 0947 UTC
 4648 kHz, 30-12, 0950 UTC
 4648 kHz, 30-12, 0952 UTC
 4648 kHz, 30-12, 0954 UTC
 4648 kHz, 30-12, 1001 UTC
 5276 kHz, 02-12, 1709 UTC

7927 kHz, 03-12, 1158 UTC
 7926.5 kHz, 07-12, 1311 UTC
 3813 kHz, 07-12, 2031 UTC
 4799 kHz, 08-12, 0601 UTC
 6822 kHz, 07-12, 0715 UTC
 12072 kHz, 07-12, 0900 UTC
 5469 kHz, 24-12, 1545 UTC
 5078 kHz, 24-12, 1610 UTC
 5461 kHz, 26-12, 0612 UTC

4024.5 kHz, 26-12, 0638 UTC

MSK7 80 209 ARHANGYeLYeC 3841 8350
 MSK7 43 683 KOMPAKTNYJ 4400 5504
 MSK7 10 201 URIL'NIK 0511 7601
 MSK7 81 054 TRYeZUB 9497 3312
 MSK7 90 096 GROZNYeNYeC 5065 7535 STYeNOLAZ 4400 5504
 MSK7 22 393 FOTINIYa 0511 7601 SUBBOTA 9497 3312
 MSK7 40 742 PONUZhDYeNIYe 6938 1458
 MSK7 41 564 ZhUKOLKA 8392 0327
 MSK7 49 760 DOMATRIN 5028 9515
 NSNS ... 444 = 222 = 55727 46347 07433 34101 62023 ... Later MN2J with OK ZUT ZJG
 ZQO Z_H ZJQ ZQK QSW3 K.
 WKVX 389 32 3 1452 389 = ZUF 938 = ZYVNZ DQJG. (Cont'd)
 CMP3 wkg 4 stations
 LBDO QTC 884 27 7 2330 884 = 985 = ÂUChSD KÂCYC //3866 kHz
 XROR clg H7OC KNCJ BAQZ L3L9 GYW9 (Qsx 4286 kHz)
 JUJG clg stations
 AWXV clg stations
 CDAP de AIFH QSA NO QSY 92722 K
 JIMC de HRC4 QTC 719 57 24 1801 179 = 021 = AAAAA CFPYR JSVHU SVUSF
 RCV de RCIG 381 17 26 0900 381 = SML FOR RJH45 RJE73 = 26061 89446 10336 41587
 60505 10070 40160 54000 70011 86523 22282 00110 20101 26013 = AR RCIG K. RCIG OK
 QRU
 RAL36 de RJD69 QTC 326 13 26 0915 326 = DDDDD GIYNV KSHMI



M32a

Russian Navy

Voyenno-Morskoy Flot Rossii

6832 kHz, 08-12, 1448 UTC
 21438 kHz, 03-12, 0831 UTC
 5066 kHz, 08-12, 0507 UTC
 4055 kHz, 08-12, 0609 UTC
 9933 kHz, 08-12, 0859 UTC
 12464 kHz, 08-12, 0908 UTC
 4979 kHz, 08-12, 1602 UTC
 10543 kHz, 07-12, 1334 UTC
 2776 kHz, 07-12, 1831 UTC
 5916 kHz, 07-12, 1846 UTC
 4051 kHz, 07-12, 2003 UTC
 8345 kHz, 05-12, 1240 UTC
 8345 kHz, 07-12, 0907 UTC
 5343 kHz, 18-12, 1502 UTC
 6290 kHz, 18-12, 1816 UTC
 6290 kHz, 18-12, 1823 UTC
 6290 kHz, 18-12, 1825 UTC
 6290 kHz, 18-12, 1829 UTC
 8348 kHz, 04-12, 0807 UTC

5224 kHz, 08-12, 0440 UTC

8348 kHz, 07-12, 0911 UTC

RGX80 de RMP QYT4 QSX 5275 QWH 6457 AR
 RCV with NAV warnings for RIP90 Collective Turkish waters
 RCV de RHI99 OK QSU1 QSX 5188AAA5 QWH 4874 K
 RKZ de RCV QTC 234 8 0651 340 = rygnoz PROP
 RAL2 clg RIB2 RGH2 RGH2 RMW2 RHQ2 RBL66
 RCV de RGR35 QYT4 QMO K – RGR35 de RCV OK QYT4 QMO K
 RAL2 clg RIB2 RGH2 RMW2 RHQ2 RBL66
 RKZ de RCV QTC 518 212 7 1501 518 = PROGNOZ POGODY OT 1800 07 DO 1800 08 DEKÂ....
 RIC87 RCV QTC 126 40 7 2300 126 ...
 RIC87 RCV QTC 223 50 26 0905 223 = PRIP NOWOROSIJSK 40
 RAL2 clg RKA2 RLO2 RBL70
 RMP DE RJI37 QSA3 K OK SK
 RIT DE RGR77 QSA1 K
 RIT wkg RKH80 (RKH80 de RIW QSA 2 QRV K – RKH80 on 08345.0)
 i.p. 10120 40070 54000 70222 8//// 22252 00040 2/// 18013 = AR RME81 K and QRU K
 RMP de RKH80 QSA ? QTC K
 RITde RKH80 QSA ? QTC K
 RMP de RKH80 QSA ? QTC K
 RHO62 Admiral Vladimirovskiy. RJS DE RHO62 826 61 4 0930 826 = FOR RJD38 RJH48 RJH74 =
 KKXX 04124 0600/ 70639 11801 88881 Position for 06 GMT report. 06 39N 118.01W
<https://goo.gl/maps/XiiH5> <https://goo.gl/maps/XiiH5>
 RKZ de RCV QTC 711 226 8 0626 711 = PROGNOZ POGODY OT 0800 08 DO 0800 09
 DEKABRÂ SREDIZEMNOE MORE ZAPAD TENES WETER SEWERO ZAPADNYJ 7/10 MORE 2/3
 BON WETER SEWERO ZAPADNYJ 10/13
 RJS DE RHO62 842 21 7 0003 842 = SML FOR RJD38 RJH48 RJH74 = 06211 99070 71046
 42497 80807 10273 40171 58027 76066 8872/ 22223 00271 20302 307// 40403 88000
 07016 = + RHO62 K

8348 kHz, 07-12, 0918 UTC	RJS DE RHO62 154 21 7 0305 154 = SML FOR RJD38 RJH48 RJH74 = 07001 99070 71039 41597 81105 10262 40174 54003 78198 8893/ 22223 00274 20301 304// 40503 88000 07016 = + RHO62 K
8348 kHz, 07-12, 0922 UTC	RJS DE RHO62 736 18 7 0602 736 = SML FOR RJD38 RJH48 RJH74 = 07031 99070 71033 41498 80610 10249 40199 52025 78181 889// 22223 00284 2//// 07013 = + RHO62 K
15586 kHz, 06-12, 0841 UTC	RIP90 de RCV QTC 267 39 10 1358 267 = NAWIP OA32 2256 KARTJ 32215 93341 GRECIÂ HATRLXBY PO 31 DEK KROME PÂTNIC HUBBOT IWOSKRESSNIJ 0600 DO 1300 AAJONE WSTROWOW KARTWI CENTROM 36/47 S 023/40 W OY ÉTOT NR 31 1400 DEK OTO 032 2194/14 I ÉTOT PUNKE AR //19201 kHz
4940.5 kHz, 11-12, 0454 UTC	RAI63 de RIQ88 QSA ? K RIQ88 de RAI63 QSA 1 K RAI63 de RIQ88 QSA 2 QTC = 26 = 8301 2400 1004 = 0400 1005 = 0800 1005 = 8300 2400 1007 = K RAI88 de RAI63 QSL = QTC 26 = 8303 = 2100 814 443 = 2200 812 441 = 2300 814 440 = 2400 811 441 = 0100 814 446 = 0200 815 443 = 0300 815 445 = 0400 819 448 = 0500 822 444 = 0600 826 442 = 0700 821 439 = 0800 823 444 = 8300 2400 821 448 = K RMS95 RJS24 RIP81 de RMP QTC 428 31 16 1048 428 = 11111 130402 44266 97297 95564 18694 80736 09578 69269 96904 21837 75924 04381 30846 28750 2683625111 42598 96896 61871 52217 02298 93398 38865 41688 45965 93773 78216 82863 32469 16030 = (repeated) AR
6832 kHz, 16-12, 0753 UTC	RME81 wkg RMP (RMP de RME81 QTC 571 17 172105 571 = SML FOR RJH45 RJD38 = 17181 99570 10078 41/97 92215 10060 40010 54000 70222 8//// 22252 00040 2//// 17013 = AR RME81 K) RMP QSL 571 K (RMP on 05213.0)
6290 kHz, 17-12, 1823 UTC	RHO62: Admiral Vladimirovskiy. RHO62 576 16 21 1203 576 = SML FOR RJD38 RJH74 = 21091 99133 70805 43598 30408 10273 40116 57012 82231 22283 00278 2//// 21012 = + RHO62 K (13.3N 80.5W Heading North at 11-15 Knots)
8345 kHz, 21-12, 0904 UTC	



M32b
Russian Naval Aviation
Aviatsiya Voennno-morskogo Flota Rossii

8632 kHz, 09-12, 1435 UTC	RJF94 wkg RCB RJC48 RCH84
8816 kHz, 05-12, 0742 UTC	RJF94 RJC38 DE 71387 QTO 0735 QRD XLAA XLMV QBD 4800 QRE 0905 K - QTH 6654 3730 QTR 0820 QBG 5100 QBD 3600 K - QQM XLAA 0900 SK
8816 kHz, 05-12, 1018 UTC	RJF94 RJC38 DE 08278 QTO 1010 QRD XLWF XLMV QRE 1210 QBD 11800 K - QTH 6427 3452 QTR 1110 QBK 7000 K - QTR 1210 QRE XLWF 1310 K
8816 kHz, 05-12, 1245 UTC	RJF94 RJC38 DE 71387 QTO 1222 QRD XLDR XLAA QBD 5400 QRE 1550 K - QTH 6710 4618 QTR 1340 QBG 5800 QBD 4200 K - QTH 6936 5009 QTR 1437 QBG 5800 QBD 3200 QRE XLDR 1525 K - QQM XLDR 1527 SK
8816 kHz, 05-12, 1413 UTC	RJF94 RJC38 DE 08278 QTO 1405 QRD XLMV XLWF QRE 1625 QBD 12500 K - QTH 6239 3611 QTR 1505 QBK 6700 K - QTH 6656 3310 QTR 1605 QBG 6700 QRE XLMV 1640 K - QQM XLMV 1643 SK
8816 kHz, 05-12	RJF94 RJC38 DE 71387 QTO 1655 QRD XLAA XLDR QBD 5000 QRE 1925 K



M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

8112 kHz, 04-12, 0700 UTC	W-marker. Also at 0800 UTC
8112 kHz, 04-12, 0843 UTC	P6ZI P6ZI P6ZI DE IWW4 IWW4 4 K - IWW4 QSA N IWW4 QSA 2 K - IWW4 RPT K - O46948823758488564 C? K - IWW4 = T46 948 823 758 488 564 CE ? K
8112 kHz, 16-12, 0640 UTC	W-markers: Tu-95MS Bear H net

LOGS SECTION

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
8300	---	12-12	1203	Fri	Unid language / station reading numbers??	USB	(AB-HK)
6984	---	15-12	1320	Mon	Unid. Live OM/RR repeating 8 4 8 4 8 4 NOMER 8 4 etc till 1329 UTC. Same station as 6988 kHz	LSB	(Avare)
6988	---	15-12	1640	Mon	Unid. Live OM/RR repeating 28 20 8 28 20 8 28 20 8 etc till 1651 UTC. Same station as 6984 kHz	LSB	(Avare)
8180	---	18-12	1315	Thu	EE/YL ... 274 274 274 274 ...	USB	(AAI)
22420	DPRK	7-12	1417	Sun	N. Korean Embassy, Havana wkg unid embassy on 20450 kHz	DPRK-ARQ 600/600 LSB	(MCO)
17318.5	DPRK	16-12	1335	Tue	North Korean diplo	DPRK-ARQ 600/600	(AAI)
18629.5	DPRK	21-12	0944	Sun	N. Korean Diplo	DPRK-ARQ 600/600	(Sferix)
18031.4	DPRK	21-12	0944	Sun	N. Korean Diplo	DPRK-ARQ 600/600	(Sferix)
16136.5	DPRK	24-12	0848	Wed	N. Korean diplo	DPRK-ARQ 600/600	(Sferix)
18171.5	DPRK	24-12	0848	Wed	N. Korean diplo	DPRK-ARQ 600/600	(Sferix)
16126.4	DPRK	24-12	0848	Wed	N. Korean diplo	DPRK-ARQ 600/600	(Sferix)
19414.5	DPRK	24-12	0848	Wed	N. Korean diplo	DPRK-ARQ 600/600	(Sferix)
18629.4	DPRK	24-12	0848	Wed	N. Korean diplo	DPRK-ARQ 600/600	(Sferix)
18419.4	DPRK	24-12	0848	Wed	N. Korean diplo	DPRK-ARQ 600/600	(Sferix)
16148.5	DPRK	25-12	0835	Thu	North Korean diplo	DPRK-ARQ 600/600	(AAI)
20235	DPRK	30-12	1823	Tue	Unid North Korean Embassy, Europe/N.Africa	DPRK-ARQ 600/600 LSB	(MCO)
4836	E06	4-12	2030	Thu	321 569 20 14259 22676 32782 ... 73311 98089 12250 569 20 00000	USB	(AB)
4760	E06	5-12	2130	Fri	472 613 20 14529	USB	(HFD)
5926	E06	10-12	1700	Wed	215 708 69 81217 30767 52604 ... 57583 83901 61564 708 69 00000	USB	(Avare)
5926	E06	10-12	1719	Wed	i.p. 708 69 00000	USB	(Faux)
4527	E06	10-12	1920	Wed	376 0	USB	(HFD)
4527	E06	10-12	1920	Wed	376 376 376 00000	AM	(GHn)
4047	E06	10-12	2020	Wed	376 0	USB	(HFD)
18455	E06	18-12	0700	Thu	923 845 106 78100 77326 46746 ... 75066 84836 77163 845 106 00000	USB	(AB)
10423	E06	24-12	1314	Wed	i.p. ends with 934 61 00000	USB	(AB)
7478	E07	1-12	2000	Mon	472 1	USB	(HFD)
6778	E07	1-12	2020	Mon	472 1 247 85 1494	USB	(HFD)
5278	E07	1-12	2040	Mon	472 1	USB	(HFD)
7464	E07	3-12	1800	Wed	485 1 714 116 ...	USB	(AB)
7464	E07	3-12	1800	Wed	carrier only	USB	(HFD)
5864	E07	3-12	1820	Wed	485 1 214 116 354	USB	(HFD)
4564	E07	3-12	1840	Wed	485 1	USB	(HFD)
6777	E07	4-12	2110	Thu	744 744 744 000	AM	(AB)
5449	E07	4-12	2130	Thu	744 744 744 000	AM	(AB)
17464	E07	11-12	1120	Thu	813 1 490 46 82965 92347 14423 ... 55714 65077 00545 000 000	J3E	(EW)
16139	E07	12-12	1200	Fri	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	J3E	(MCO/Avare)
14607	E07	12-12	1220	Fri	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	J3E	(Avare)
13951	E07	12-12	1240	Fri	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	J3E	(Avare)
16139	E07	13-12	1200	Sat	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	USB	(AB)
14607	E07	13-12	1220	Sat	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	USB	(AB)
7967	E07	13-12	1620	Sat	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	USB	(AB)
6942	E07	13-12	1640	Sat	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	USB	(AB)
5091	E07	13-12	1740	Sat	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	USB	(AB)
18646	E07	14-12	1100	Sun	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	USB	(AB)
17464	E07	14-12	1120	Sun	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	USB	(AB)
15826	E07	14-12	1140	Sun	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	USB	(AB)
16139	E07	14-12	1200	Sun	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	USB	(AB)
14607	E07	14-12	1220	Sun	813 1 352 43 00097 05158 04663 ... 07000 70155 53008 000 000	USB	(AB)
18646	E07	15-12	1100	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
18646	E07	15-12	1100	Mon	813 1 678 51 4008	USB	(HFD)
17464	E07	15-12	1120	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
17464	E07	15-12	1120	Mon	813 1	USB	(HFD)
15826	E07	15-12	1140	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
15826	E07	15-12	1140	Mon	813 1	USB	(HFD)
16139	E07	15-12	1200	Mon	813 1	USB	(HFD)
16139	E07	15-12	1200	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
14607	E07	15-12	1220	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
14607	E07	15-12	1220	Mon	813 1	USB	(HFD)
13951	E07	15-12	1240	Mon	813 1	USB	(HFD)
13951	E07	15-12	1240	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
9121	E07	15-12	1600	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB/MPJ)
9121	E07	15-12	1600	Mon	813 1 678 51 4008	USB	(HFD)
7967	E07	15-12	1620	Mon	813 1	USB	(HFD)
7967	E07	15-12	1620	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB/MPJ)
6942	E07	15-12	1640	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB/MPJ)
6942	E07	15-12	1640	Mon	813 1	USB	(HFD)
6949	E07	15-12	1700	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB/MPJ)
6949	E07	15-12	1700	Mon	813 1	USB	(HFD)
5886	E07	15-12	1720	Mon	813 1	USB	(HFD)
5886	E07	15-12	1720	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB/MPJ)
5091	E07	15-12	1740	Mon	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(MPJ)
5091	E07	15-12	1740	Mon	813 1	USB	(HFD)
18646	E07	16-12	1100	Tue	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
18646	E07	16-12	1100	Tue	813 1 678 51 4008	USB	(HFD)
17464	E07	16-12	1120	Tue	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
17464	E07	16-12	1120	Tue	813 1	USB	(HFD)
15826	E07	16-12	1140	Tue	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
15826	E07	16-12	1140	Tue	813 1	USB	(HFD)
16139	E07	16-12	1200	Tue	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
16139	E07	16-12	1200	Tue	813 1	USB	(HFD)
14607	E07	16-12	1220	Tue	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
14607	E07	16-12	1220	Tue	813 1	USB	(HFD)
13951	E07	16-12	1240	Tue	813 1	USB	(HFD)
13951	E07	16-12	1240	Tue	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB/AAI)
9121	E07	16-12	1600	Tue	813 1 678 51 4008	USB	(HFD)
9121	E07	16-12	1600	Tue	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
7967	E07	16-12	1620	Tue	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
6942	E07	16-12	1620	Tue	813 1	USB	(HFD)
6942	E07	16-12	1640	Tue	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
6942	E07	16-12	1640	Tue	813 1	USB	(HFD)
6949	E07	16-12	1700	Tue	813 1	USB	(HFD)
5886	E07	16-12	1720	Tue	813 1	USB	(HFD)
5091	E07	16-12	1740	Tue	813 1	USB	(HFD)
18646	E07	17-12	1100	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
18646	E07	17-12	1100	Wed	813 1 678 51 4008	USB	(HFD)
17464	E07	17-12	1120	Wed	813 1	USB	(HFD)
17464	E07	17-12	1120	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
15826	E07	17-12	1140	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
15826	E07	17-12	1140	Wed	813 1	USB	(HFD)
16139	E07	17-12	1200	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
16139	E07	17-12	1200	Wed	813 1	USB	(HFD)
14607	E07	17-12	1220	Wed	813 1	USB	(HFD)
14607	E07	17-12	1220	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB/MPJ)
13951	E07	17-12	1240	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
13951	E07	17-12	1240	Wed	813 1	USB	(HFD)
6942	E07	17-12	1600	Wed	813 1	USB	(HFD)
9121	E07	17-12	1600	Wed	813 1 678 51 4008	USB	(HFD)
9121	E07	17-12	1600	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
7967	E07	17-12	1620	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
7967	E07	17-12	1620	Wed	813 1	USB	(HFD)
6942	E07	17-12	1640	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
6949	E07	17-12	1700	Wed	813 1	USB	(HFD)
6949	E07	17-12	1700	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
5886	E07	17-12	1720	Wed	813 1	USB	(HFD)
5886	E07	17-12	1720	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)
5091	E07	17-12	1740	Wed	813 1	USB	(HFD)
5091	E07	17-12	1740	Wed	813 1 678 51 40087 44527 29022 ... 20953 65051 38908 000 000	USB	(AB)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
7464	E07	17-12	1800	Wed	485 485 485 000	AM	(AB)
5864	E07	17-12	1820	Wed	485 485 485 000	AM	(AB)
6778	E07	17-12	2020	Wed	257 1 3253 130 06919 ... 79698 000	AM	(MPJ)
18646	E07	18-12	1100	Thu	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB)
18646	E07	18-12	1100	Thu	813 1 411 48 4754	USB	(HFD)
17464	E07	18-12	1120	Thu	813 1	USB	(HFD)
17464	E07	18-12	1120	Thu	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB)
15826	E07	18-12	1140	Thu	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB)
15826	E07	18-12	1140	Thu	813 1	USB	(HFD)
16139	E07	18-12	1200	Thu	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB)
16139	E07	18-12	1200	Thu	813 1	USB	(HFD)
14607	E07	18-12	1220	Thu	813 1	USB	(HFD)
13951	E07	18-12	1240	Thu	813 1	USB	(HFD)
9121	E07	18-12	1600	Thu	813 1 411 48 4754	USB	(HFD)
7967	E07	18-12	1620	Thu	813 1	USB	(HFD)
6942	E07	18-12	1640	Thu	813 1	USB	(HFD)
6949	E07	18-12	1700	Thu	813 1	USB	(HFD)
5886	E07	18-12	1720	Thu	813 1	USB	(HFD)
5091	E07	18-12	1740	Thu	813 1	USB	(HFD)
18646	E07	19-12	1100	Fri	813 1 411 48 4754	USB	(HFD)
15826	E07	19-12	1140	Fri	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB/MPJ)
16139	E07	19-12	1200	Fri	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB/MPJ)
14607	E07	19-12	1220	Fri	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB/MPJ)
13951	E07	19-12	1240	Fri	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB/MPJ)
9121	E07	19-12	1600	Fri	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB)
7967	E07	19-12	1620	Fri	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB)
6942	E07	19-12	1640	Fri	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB/MPJ)
6949	E07	19-12	1700	Fri	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB)
5886	E07	19-12	1720	Fri	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB)
5091	E07	19-12	1740	Fri	813 1 411 48 47543 30268 72383 ... 48568 60494 70608 000 000	USB	(AB)
18646	E07	20-12	1100	Sat	813 1 411 48 4754	USB	(HFD)
18646	E07	21-12	1100	Sun	813 1 322 68 7045	USB	(HFD)
18646	E07	21-12	1100	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
17464	E07	21-12	1120	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
15826	E07	21-12	1140	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB/MPJ)
16139	E07	21-12	1200	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB/MPJ)
14607	E07	21-12	1220	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB/MPJ)
13951	E07	21-12	1240	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB/MPJ)
9121	E07	21-12	1600	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
9121	E07	21-12	1600	Sun	813 1 322 68 7045	USB	(HFD)
7967	E07	21-12	1620	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
6942	E07	21-12	1640	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
6949	E07	21-12	1700	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
5886	E07	21-12	1720	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
5091	E07	21-12	1740	Sun	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
7464	E07	21-12	1800	Sun	485 1 235 137 70672 45249 21782 ... 14344 86218 12460 000 000	AM	(AB)
5864	E07	21-12	1820	Sun	485 1 235 137 70672 45249 21782 ... 14344 86218 12460 000 000	AM	(AB)
4564	E07	21-12	1840	Sun	485 1 235 137 70672 45249 21782 ... 14344 86218 12460 000 000	AM	(AB)
18646	E07	22-12	1100	Mon	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
18646	E07	22-12	1100	Mon	813 1 322 68 7045	USB	(HFD)
16139	E07	22-12	1200	Mon	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB/MPJ)
16139	E07	22-12	1200	Mon	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
14607	E07	22-12	1220	Mon	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
13951	E07	22-12	1240	Mon	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
9121	E07	22-12	1600	Mon	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
18646	E07	23-12	1100	Tue	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB/MPJ)
18646	E07	23-12	1100	Tue	813 1 322 68 7045	USB	(HFD)
17464	E07	23-12	1120	Tue	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB/MPJ)
15826	E07	23-12	1140	Tue	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(MPJ)
14607	E07	23-12	1220	Tue	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
13951	E07	23-12	1240	Tue	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
6949	E07	23-12	1700	Tue	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
5886	E07	23-12	1720	Tue	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB)
5091	E07	23-12	1740	Tue	813 1 322 68 70458 44582 78126 ... 45845 46075 01954 000 000	USB	(AB/MPJ)
18646	E07	24-12	1100	Wed	813 1 437 57 1986	USB	(HFD)
18646	E07	24-12	1100	Wed	813 1 437 57 19861 95156 69764 ... 56363 69190 32254 000 000	USB	(AB)
17464	E07	24-12	1120	Wed	813 1 437 57 19861 95156 69764 ... 56363 69190 32254 000 000	USB	(AB)
15826	E07	24-12	1140	Wed	813 1 437 57 19861 95156 69764 ... 56363 69190 32254 000 000	USB	(AB)
9121	E07	24-12	1600	Wed	813 1 437 57 19861 95156 69764 ... 56363 69190 32254 000 000	USB	(AB)
7967	E07	24-12	1620	Wed	813 1 437 57 19861 95156 69764 ... 56363 69190 32254 000 000	USB	(AB)
6942	E07	24-12	1640	Wed	813 1 437 57 19861 95156 69764 ... 56363 69190 32254 000 000	USB	(AB)
6949	E07	24-12	1700	Wed	813 1 437 57 1986	USB	(HFD)
5886	E07	24-12	1720	Wed	813 1 437 57 19861 95156 69764 ... 56363 69190 32254 000 000	USB	(AB)
5091	E07	24-12	1740	Wed	813 1 437 57 19861 95156 69764 ... 56363 69190 32254 000 000	USB	(AB)
18646	E07	25-12	1100	Thu	813 1 437 57 1986	USB	(HFD)
18646	E07	26-12	1100	Fri	813 1 437 57 1986	USB	(HFD)
15826	E07	26-12	1140	Fri	813 1 437 57 19861 95156 69764 ... 56363 69190 32254 000 000	USB	(AB)
5886	E07	26-12	1720	Fri	813 1 437 57 19861 95156 69764 ... 56363 69190 32254 000 000	USB	(AB)
5091	E07	26-12	1740	Fri	813 1 437 57 19861 95156 69764 ... 56363 69190 32254 000 000	USB	(AB)
18646	E07	27-12	1100	Sat	813 1 940 62 3952	USB	(HFD)
17464	E07	27-12	1120	Sat	813 1 940 62 39528 85560 77152 ... 88295 68598 94550 000 000	USB	(AB)
17464	E07	27-12	1120	Sat	813 1 940 62 3952	USB	(HFD)
15826	E07	27-12	1140	Sat	813 1 940 62 3952	USB	(HFD)
16139	E07	27-12	1200	Sat	813 1 940 62 3952	USB	(HFD)
14607	E07	27-12	1220	Sat	813 1 940 62 3952	USB	(HFD)
13951	E07	27-12	1240	Sat	813 1 940 62 3952	USB	(HFD)
9121	E07	27-12	1600	Sat	813 1 940 62 3952	USB	(HFD)
7967	E07	27-12	1620	Sat	813 1 940 62 3952	USB	(HFD)
6942	E07	27-12	1640	Sat	813 1 940 62 3952	USB	(HFD)
6949	E07	27-12	1700	Sat	813 1 940 62 3952	USB	(HFD)
5886	E07	27-12	1720	Sat	813 1 940 62 39528 85560 77152 78865 50679 ... 36523 41649 88295 68598 94550 000 000	USB	(MPJ)
5886	E07	27-12	1720	Sat	813 1 940 62 3952	USB	(HFD)
5091	E07	27-12	1740	Sat	813 1 940 62 39528 85560 77152 78865 50679 ... 36523 41649 88295 68598 94550 000 000	USB	(MPJ)
5091	E07	27-12	1740	Sat	813 1 940 62 3952	USB	(HFD)
18646	E07	28-12	1100	Sun	813 1 940 62 3952	USB	(HFD)
15826	E07	28-12	1140	Sun	813 1 940 62 39528 85560 77152 ... 88295 68598 94550 000 000	USB	(AB)
9121	E07	28-12	1600	Sun	813 1 940 62 39528 85560 77152 78865 50679 ... 91138 36523 41649 88295 68598 94550 000 000	USB	(MPJ)
7967	E07	28-12	1620	Sun	813 1 940 62 39528 85560 77152 78865 50679 ... 91138 36523 41649 88295 68598 94550 000 000	USB	(MPJ)
6942	E07	28-12	1640	Sun	813 1 940 62 39528 85560 77152 78865 50679 ... 91138 36523 41649 88295 68598 94550 000 000	USB	(MPJ)
5886	E07	28-12	1720	Sun	813 1 940 62 39528 85560 77152 ... 88295 68598 94550 000 000	USB	(AB/MPJ)
5091	E07	28-12	1740	Sun	813 1 940 62 39528 85560 77152 ... 88295 68598 94550 000 000	USB	(AB/MPJ)
18646	E07	29-12	1100	Mon	813 1 940 62 3952	USB	(HFD)
18646	E07	29-12	1100	Mon	813 1 940 62 39528 85560 77152 ... 88295 68598 94550 000 000	USB	(AB)
14607	E07	29-12	1227	Mon	i.p. 813 1 940 62 39528 85560 77152 ... 88295 68598 94550 000 000	USB	(MCO)
13951	E07	29-12	1240	Mon	813 1 940 62 39528 85560 77152 ... 88295 68598 94550 000 000	USB	(AB)
6942	E07	29-12	1641	Mon	813 1 940 62 39528 85560 77152 ... 88295 68598 94550 000 000	USB	(ASF)
5886	E07	29-12	1720	Mon	813 1 940 62 39528 85560 77152 ... 88295 68598 94550 000 000	USB	(AB)
18646	E07	30-12	1100	Tue	813 1 518 70 3909	USB	(HFD)
13951	E07	30-12	1240	Tue	813 1 518 70 39097 86835 90265 ... 44241 79286 26605 000 000	USB	(AB)
9121	E07	30-12	1600	Tue	813 1 518 70 39097 86835 90265 ... 44241 79286 26605 000 000	USB	(AB)
7967	E07	30-12	1620	Tue	813 1 518 70 39097 86835 90265 ... 44241 79286 26605 000 000	USB	(AB)
5886	E07	30-12	1720	Tue	813 1 518 70 39097 86835 90265 ... 44241 79286 26605 000 000	USB	(AB)
5091	E07	30-12	1740	Tue	813 1 518 70 39097 86835 90265 ... 44241 79286 26605 000 000	USB	(AB)
18646	E07	31-12	1100	Wed	813 1 518 70 3909	USB	(HFD)
18646	E07	31-12	1100	Wed	813 1 518 70 39097 86835 90265 95123 10894 ... 92923 02143 44241 79286 26605 000 000	USB	(MPJ)
18646	E07	31-12	1100	Wed	813 1 518 70 39097 86835 90265 ... 44241 79286 26605 000 000	USB	(AB)
17464	E07	31-12	1120	Wed	813 1 518 70 39097 86835 90265 95123 10894 ... 92923 02143 44241	USB	(MPJ)

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					79286 26605 000 000		
15826	E07	31-12	1140	Wed	813 1 518 70 39097 86835 90265 95123 10894 ... 92923 02143 44241 79286 26605 000 000	USB	(MPJ)
5387	E07a	5-12	1630	Fri	830 830 830 000	USB	(MPJ)
11121	E07a	6-12	0900	Sat	124 0	USB	(HFD)
12221	E07a	6-12	0920	Sat	124 0	USB	(HFD)
5091	E07a	9-12	1740	Tue	813 1 490 46 82965 92347 14423 ... 55714 65077 00545 000 000	USB	(Avare)
5887	E07a	12-12	1610	Fri	830 1 11411 906 9	USB	(HFD)
5887	E07a	12-12	1610	Fri	830 1 11411 9906 93 60516 99936 24286 ... 27018 81105 33370 000 000	USB	(GHn)
5387	E07a	12-12	1630	Fri	830 1 11411 9906 93 60516 99936 24286 ... 27018 81105 33370 000 000	USB	(GHn)
5387	E07a	12-12	1630	Fri	830 1 11411	USB	(HFD)
5087	E07a	12-12	1650	Fri	830 1 11411 9906 93 60516 99936 24286 ... 27018 81105 33370 000 000	USB	(GHn)
5087	E07a	12-12	1650	Fri	830 1 11411	USB	(HFD)
11121	E07a	13-12	0900	Sat	124 1 11411 9906 93 67516 99936 24286 ... 27018 81105 33370 000 000	USB	(AB)
12221	E07a	13-12	0920	Sat	124 1 11411 9906 93 67516 99936 24286 ... 27018 81105 33370 000 000	USB	(AB)
13421	E07a	13-12	0940	Sat	124 1 11411 9906 93 67516 99936 24286 ... 27018 81105 33370 000 000	USB	(AB)
5277	E07a	17-12	2120	Wed	825 825 825 000	USB	(AB)
5887	E07a	19-12	1610	Fri	830 830 830 000	USB	(AB)
5387	E07a	19-12	1630	Fri	830 830 830 000	USB	(AB)
10213	E11	1-12	0745	Mon	262/100	USB	(AB)
15632	E11	3-12	1155	Wed	718/00	USB	(MPJ)
18030	E11	3-12	1300	Wed	133/00	USB	(MPJ)
6304	E11	5-12	2000	Fri	576/00	USB	(GHn/MPJ)
10125	E11	8-12	0820	Mon	438/00	USB	(HFD)
18030	E11	10-12	1300	Wed	133/00	USB	(AB)
11107	E11	14-12	2005	Sun	363/00	USB	(HFD)
9446	E11	15-12	0900	Mon	534/00	USB	(AB)
15632	E11	15-12	1540	Mon	228/00	USB	(GHn)
7840	E11	16-12	0645	Tue	517/00	USB	(HFD)
12153	E11	16-12	1045	Tue	576/00	USB	(HFD)
5779	E11	17-12	0315	Wed	253/00	USB	(HFD)
9446	E11	17-12	0900	Wed	534/00	USB	(AB)
9950	E11	17-12	0930	Wed	270/00	USB	(AB)
7840	E11	18-12	0645	Thu	517/00	USB	(AB)
16112	E11	18-12	0745	Thu	335/00	USB	(AB)
9446	E11	19-12	0830	Fri	649/00	USB	(AB)
9446	E11	22-12	0900	Mon	534/00	USB	(AB)
8091	E11	23-12	1045	Tue	469/00	USB	(AB)
12153	E11	23-12	1045	Tue	576/00	USB	(AB)
9950	E11	24-12	0930	Wed	270/00	USB	(AB)
4441	E11	24-12	1445	Wed	287/00	USB	(AB)
9446	E11	26-12	0930	Fri	648/35 ...	USB	(AB)
10213	E11	29-12	0745	Mon	262/00	USB	(AB)
10125	E11	29-12	0820	Mon	438/00	USB	(AB)
9446	E11	29-12	0830	Mon	649/00	USB	(AB)
16112	E11	30-12	0745	Tue	335/00	USB	(AB)
10429	E11	31-12	0805	Wed	311/00	USB	(AB)
9950	E11	31-12	0930	Wed	270/00	USB	(AB)
9443	E11	31-12	1705	Wed	392/00	USB	(GHn)
15632	E11a	1-12	1540	Mon	226/37 Attention 79281 24930 17254 ... 04027 17458 93152 Attention, rpt msg, out	USB	(AB)
16112	E11a	2-12	0745	Tue	330/35 Attention 40755 57118 17060 ... 56205 55797 21609 Attention, rpt msg, out	USB	(AB)
10690	E11a	2-12	1810	Tue	981/10 Attention 93360 72024 16818 52508 82917 82019 95681 33035 43366 64586	USB	(MPJ)
10125	E11a	4-12	0820	Thu	438/00	USB	(AB)
9950	E11a	4-12	0930	Thu	275/33 Attention 00584 64859 54621 ... 75048 67318 82370 Attention, rpt msg, out	USB	(AB)
10213	E11a	8-12	0745	Mon	260/33 93158	USB	(HFD)
14410	E11a	8-12	1110	Mon	952/40 17535	USB	(HFD)
14410	E11a	8-12	1110	Mon	952/40 Attention 17353 03791 53085 ... 84936 95220 97746 Attention, rpt msg, out		(AB)

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14410	E11a	12-12	1110	Fri	958/31 76846	USB	(HFD)
13455	E11a	16-12	0530	Tue	981/10 26945	USB	(HFD)
4441	E11a	17-12	1445	Wed	286/36 Attention 77993 28086 22934 ... 00059 02066 33426 Attention, rpt msg, out	USB	(AB)
10800	E11a	19-12	0710	Fri	630/33 Attention 88273 89189 17407 ... 92999 47714 01298 Attention, rpt msg	USB	(AB)
6923	E11a	19-12	1710	Fri	951/20 Attention 86951 45229 16868 ... 64441 26113 42618 Attention, rpt msg, out	USB	(AB/ASF)
10690	E11a	23-12	1400	Tue	987/10 Attention 82024 25301 35683 56486 68681 57900 47994 68490 79650 51827 Att, rpt msg, out	USB	(AB)
8091	E11a	24-12	1045	Wed	469/00	USB	(AB)
7840	E11a	25-12	0645	Thu	515/30 ...	USB	(AB)
9446	E11a	29-12	0900	Mon	537/35 Attention 10638 49405 29337 ... 75230 21266 09602 Attention, rpt msg, out	USB	(AB)
14410	E11a	29-12	1110	Mon	954/32 Attention ...	USB	(AB)
6923	E11a	29-12	1810	Mon	951/20 Attention 02006 43150 25198 ... 79060 09431 99882 Attention, rpt msg, out	USB	(AB)
10690	E11a	30-12	1400	Tue	987/10 Attention 69952 69864 59702 31342 40742 76865 72384 00160 71002 36696 Att, rpt msg, out	USB	(AB)
10213	E11a	30-12	1810	Tue	984/10 Attention 75875 97990 19561 53887 34482 37197 83409 69641 48051 63791 Attention, rpt msg, out	USB	(AB)
9446	E11a	31-12	0900	Wed	537/35 Attention 10638 49405 29337 ... 75230 21266 09602 Attention, rpt msg, out	USB	(AB)
11170	E17z	4-12	0800	Thu	674 920 5 32929 32622 32939 31096 47473 920 5 00000	USB	(AB)
9820	E17z	4-12	0810	Thu	674 920 5 32929 32622 32939 31096 47473 920 5 00000	USB	(AB)
9450	E25	11-12	1215	Thu	835 837 2 8888 8 MSG 3x 3001 8510 9868 0743 2663 3582 8754 9807 8510 3757 RBT 3x EOM	AM	(Avare)
9550	E25	27-12	1110	Sat	test tone + music, 7 mins long	AM	(Danix)
9600	E25	27-12	1210	Sat	1000 Hz tone, then Umm Kulthum's song "Lessa Faker"	AM	(Danix)
9450	E25	30-12	1215	Tue	835 830 4 etc.	AM	(Danix)
16086.7	EGY	14-12	1336	Sun	MFA Cairo clg 00009 Egyptian embassy Kuwait	Codan chirp	(AAI)
19122	EGY	15-12	1223	Mon	44406: Egyptian Embassy, New Delhi to 99904: MFA Cairo	Codan Chirp & 9001/3012 modem	(MCO)
18666	EGY	20-12	1721	Sat	33304: Egyptian Embassy N'djamena to 99907: MFA Cairo (QSX 19666 kHz)	Codan 9001/3012 16 tone	(MCO)
16237	EGY	24-12	1237	Wed	MFA Cairo clg TVVP Egyptian Embassy, Abu Dhabi	SITOR-A 100/170	(AAI)
19334.7	EGY	24-12	1737	Wed	Egyptian embassy, Bamako (KKVE) with ATU-80 opchat and traffic to MFA Cairo	SITOR-A 100/170	(MCO)
20136.7	EGY	28-12	1358	Sun	Egyptian Embassy Kampala tfc to MFA Cairo	SITOR-A 100/170	(MCO)
18189.7	EGY	30-12	1426	Tue	Egyptian Embassy, Accra with ATU-80 simplex tfc to MFA Cairo headed ?jg: kwfk?	SITOR-A 100/170	(MCO)
5463	G06	1-12	0800	Mon	215 215 215 00000	USB	(AB)
7844	G06	5-12	2000	Fri	167 167 167 00000	AM	(GHn/MPJ)
3635	G06	8-12	1659	Mon	367 367 367 00000	AM	(MPJ)
4538	G06	8-12	1800	Mon	367 367 367 00000	AM	(MPJ)
4016	G06	10-12	1300	Wed	367 0	USB	(HFD)
4024	G06	11-12	1300	Thu	215 0	USB	(HFD)
4519	G06	11-12	1830	Thu	271 394 394 20 20 06132 75514 79681 ... 49870 63962 04884 394 394 20 20 00000	USB	(AB)
7844	G06	19-12	2000	Fri	167 167 167 00000	USB	(MPJ)
5855	HM01	1-12	0500	Mon	22156 00104 61487 21481 05569 06608	AM/RDFT	(SFNY)
10345	HM01	1-12	0600	Mon	22156 00104 61487 21481 05569 06608	AM/RDFT	(SFNY)
9065	HM01	1-12	0800	Mon	22156 00104 61487 21481 05569 06608	AM/RDFT	(AB)
11435	HM01	1-12	1601	Mon	22157 00105 61488 21482 87421 54881	AM/RDFT	(DSch)
11635	HM01	1-12	1813	Mon	22157 00105 61488 21482 87421 54881	AM/RDFT	(DSch)
11635	HM01	1-12	2157	Mon	00105 61488 21482 87421 54881 22157	AM/RDFT	(Dan)
14375	HM01	2-12	0500	Tue	22157 00105 61488 21482 87421 54881	AM/RDFT	(SFNY)
11462	HM01	2-12	0500	Tue	22157 00105 61488 21482 87421 54881	AM/RDFT	(SFNY)
11530	HM01	2-12	1700	Tue	67351 00106 10531 21483 87421 54881	AM/RDFT	(DSch)
11635	HM01	2-12	1800	Tue	67351 00106 10531 21483 87421 54881	AM/RDFT	(DSch)
16180	HM01	2-12	2103	Tue	67351 00106 10531 21483 87421 54881	AM/RDFT	(DSch)
17480	HM01	2-12	2200	Tue	67351 00106 10531 21483 87421 54881	AM/RDFT	(DSch)
17480	HM01	2-12	2230	Tue	00106 10531 21483 87421 54881 67351	AM/RDFT	(Dan)
5855	HM01	3-12	0500	Wed	67351 00106 10531 21483 87421 54881	AM/RDFT	(SFNY)

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10345	HM01	3-12	0600	Wed	67351 00106 10531 21483 87421 54881	AM/RDFT	(SFNY)
11462	HM01	4-12	0500	Thu	67351 00107 10531 21484 87422 54882	AM/RDFT	(SFNY)
11435	HM01	4-12	1614	Thu	67352 00108 10532 21485 87423 54883	AM/RDFT	(DSch)
11530	HM01	4-12	1700	Thu	67352 00108 10532 21485 87423 54883	AM/RDFT	(DSch)
11635	HM01	4-12	1813	Thu	67352 00108 10532 21485 87423 54883	AM/RDFT	(DSch)
16180	HM01	4-12	2100	Thu	67352 00108 10532 21485 87423 54883	AM/RDFT	(DSch)
17480	HM01	4-12	2200	Thu	00108 10532 21485 87423 54883 67352	AM/RDFT	(Dan)
17480	HM01	4-12	2200	Thu	67352 00108 10532 21485 87423 54883	AM/RDFT	(DSch)
5855	HM01	5-12	0500	Fri	67352 00108 10532 21485 87423 54883	AM/RDFT	(SFNY)
9330	HM01	5-12	0700	Fri	67352 00108 10532 21485 87423 54883	AM/RDFT	(SFNY)
11435	HM01	5-12	1611	Fri	67353 44441 10533 21486 87424 54884	AM/RDFT	(DSch)
11530	HM01	5-12	1700	Fri	67353 44441 10533 21486 87424 54884	AM/RDFT	(BW3/DSch)
11635	HM01	5-12	1813	Fri	67353 44441 10533 21486 87424 54884	AM/RDFT	(DSch)
11635	HM01	5-12	2109	Fri	67353 44441 10533 21486 87424 54884	AM/RDFT	(DSch)
10715	HM01	5-12	2230	Fri	67353 44441 10533 21486 87424 54884	AM/RDFT	(DSch)
11435	HM01	6-12	1635	Sat	67354 44441 10534 21487 87425 54885	AM/RDFT	(DSch)
11530	HM01	6-12	1705	Sat	67354 44441 10534 21487 87425 54885	AM/RDFT	(DSch)
11635	HM01	6-12	1848	Sat	67354 44441 10534 21487 87425 54885	AM/RDFT	(DSch)
16180	HM01	6-12	2100	Sat	67354 44441 10534 21487 87425 54885	AM/RDFT	(DSch)
17480	HM01	6-12	2200	Sat	67354 44441 10534 21487 87425 54885	AM/RDFT	(DSch)
5855	HM01	7-12	0500	Sun	67354 44441 10534 21487 87425 54885	AM/RDFT	(SFNY)
10345	HM01	7-12	0600	Sun	67354 44441 10534 21487 87425 54885	AM/RDFT	(SFNY)
11435	HM01	7-12	1606	Sun	Late start 67355 4442 10535 25771 87426 54886	AM/RDFT	(DSch)
11530	HM01	7-12	1707	Sun	67355 4442 10535 25771 87426 54886	AM/RDFT	(DSch)
11635	HM01	7-12	1811	Sun	67355 4442 10535 25771 87426 54886	AM/RDFT	(DSch)
5855	HM01	8-12	0500	Mon	67355 44442 10535 25771 87426 54886	AM/RDFT	(SFNY)
10345	HM01	8-12	0600	Mon	67355 44442 10535 25771 87426 54886	AM/RDFT	(SFNY)
11635	HM01	8-12	1803	Mon	67356 44443 10536 25771 87427 54887	AM/RDFT	(DSch)
11635	HM01	8-12	2130	Mon	67356 44443 10536 25771 87427 54887	AM/RDFT	(DSch)
10715	HM01	8-12	2200	Mon	44443 10536 25771 87427 54887 67356	AM/RDFT	(Dan)
10715	HM01	8-12	2204	Mon	67356 44443 10536 25771 87427 54887	AM/RDFT	(DSch)
11462	HM01	9-12	0500	Tue	67356 44443 10536 25771 87427 54887	AM/RDFT	(SFNY)
9330	HM01	9-12	0600	Tue	67356 44443 10536 25771 87427 54887	AM/RDFT	(SFNY)
11530	HM01	9-12	1700	Tue	67357 44444 10537 25772 24251 54888	AM/RDFT	(DSch)
11635	HM01	9-12	1818	Tue	67357 44444 10537 25772 24251 54888	AM/RDFT	(DSch)
16180	HM01	9-12	2115	Tue	44444 10537 25772 24251 54888 67357	AM/RDFT	(Dan)
16180	HM01	9-12	2115	Tue	67357 44444 10537 25772 24251 54888	AM/RDFT	(DSch)
5855	HM01	10-12	0500	Wed	67357 44444 10537 25772 24251 54888	AM/RDFT	(SFNY)
10345	HM01	10-12	0600	Wed	67357 44444 10537 25772 24251 54888	AM/RDFT	(SFNY)
11635	HM01	10-12	1801	Wed	73821 44445 04861 2773 24251 54889	AM/RDFT	(DSch)
11635	HM01	10-12	2110	Wed	73821 44445 04861 2773 24251 54889	AM/RDFT	(DSch)
10715	HM01	10-12	2218	Wed	73821 44445 04861 2773 24251 54889	AM/RDFT	(DSch)
11462	HM01	11-12	0500	Thu	73821 44445 04861 25773 24251 54889	AM/RDFT	(SFNY)
9330	HM01	11-12	0600	Thu	73821 44445 04861 25773 24251 54889	AM/RDFT	(SFNY)
11435	HM01	11-12	1608	Thu	73821 44446 04861 25774 24252 50581	AM/RDFT	(DSch)
11530	HM01	11-12	1730	Thu	73821 44446 04861 25774 24252 50581	AM/RDFT	(DSch)
11635	HM01	11-12	1800	Thu	73821 44446 04861 25774 24252 50581	AM/RDFT	(DSch)
16180	HM01	11-12	2100	Thu	73821 44446 04861 25774 24252 50581	AM/RDFT	(DSch/Dan)
17480	HM01	11-12	2230	Thu	73821 44446 04861 25774 24252 50581	AM/RDFT	(DSch)
5855	HM01	12-12	0500	Fri	73821 44446 04861 25774 24252 50581	AM/RDFT	(SFNY)
10345	HM01	12-12	0600	Fri	73821 44446 04861 25774 24252 50581	AM/RDFT	(AB)
10345	HM01	12-12	0600	Fri	73821 44446 04861 25774 24252 50581	AM/RDFT	(SFNY)
9330	HM01	12-12	0730	Fri	73821 44446 04861 25774 24252 50581	AM/RDFT	(AB)
11462	HM01	13-12	0500	Sat	73822 44447 04862 25775 24253 50581	AM/RDFT	(SFNY)
9330	HM01	13-12	0600	Sat	73822 44447 04862 25775 24253 50581	AM/RDFT	(SFNY)
9330	HM01	13-12	0630	Sat	73822 44447 04862 25775 24253 50581. Should be on 14375 kHz	AM/RDFT	(AB)
11462	HM01	13-12	0930	Sat	73822 44447 04862 25775 24253 50581	AM/RDFT	(AB)
12180	HM01	13-12	1000	Sat	73822 44447 04862 25775 24253 50581	AM/RDFT	(AB)
11435	HM01	13-12	1614	Sat	73823 44448 04863 25776 24254 50582	AM/RDFT	(DSch)
11530	HM01	13-12	1715	Sat	73823 44448 04863 25776 24254 50582	AM/RDFT	(DSch)
11635	HM01	13-12	1819	Sat	73823 44448 04863 25776 24254 50582	AM/RDFT	(DSch)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
16180	HM01	13-12	2101	Sat	73823 44448 04863 25776 24254 50582	AM/RDFT	(DSch)
17480	HM01	13-12	2203	Sat	73823 44448 04863 25776 24254 50582	AM/RDFT	(DSch/Dan)
5855	HM01	14-12	0500	Sun	73823 44448 04863 25776 24254 50582	AM/RDFT	(SFNY)
10345	HM01	14-12	0600	Sun	73823 44448 04863 25776 24254 50582	AM/RDFT	(SFNY)
9330	HM01	14-12	0730	Sun	73823 44448 04863 25776 24254 50582	AM/RDFT	(AB)
9065	HM01	14-12	0800	Sun	73823 44448 04863 25776 24254 50582	AM/RDFT	(AB)
9240	HM01	14-12	0900	Sun	73823 44448 04863 25776 24254 50582	AM/RDFT	(AB)
9155	HM01	14-12	1000	Sun	73823 44448 04863 25776 24254 50582	AM/RDFT	(AB)
11435	HM01	14-12	1559	Sun	73823 44448 04863 25776 24254 50582	AM/RDFT	(DSch)
11530	HM01	14-12	1705	Sun	73824 44449 04864 25777 24255 50583	AM/RDFT	(DSch)
11635	HM01	14-12	1800	Sun	73824 44449 04864 25777 24255 50583	AM/RDFT	(DSch)
11635	HM01	14-12	2109	Sun	73824 44449 04864 25777 24255 50583	AM/RDFT	(DSch)
10715	HM01	14-12	2206	Sun	73824 44449 04864 25777 24255 50583	AM/RDFT	(DSch)
5855	HM01	15-12	0500	Mon	73824 44449 04864 25777 24255 50583	AM/RDFT	(SFNY)
9065	HM01	15-12	0800	Mon	73824 44449 04864 25777 24255 50583	AM/RDFT	(AB)
9240	HM01	15-12	0900	Mon	73824 44449 04864 25777 24255 50583	AM/RDFT	(AB)
11530	HM01	15-12	1700	Mon	73825 etc	AM/RDFT	(DSch)
11635	HM01	15-12	1805	Mon	73825 etc	AM/RDFT	(DSch)
11635	HM01	15-12	2103	Mon	73825 etc	AM/RDFT	(DSch)
10715	HM01	15-12	2203	Mon	73825 etc	AM/RDFT	(DSch)
11462	HM01	16-12	0500	Tue	73825 21261 04865 25778 24256 50584	AM/RDFT	(SFNY)
9330	HM01	16-12	0600	Tue	73825 21261 04865 25778 24256 50584	AM/RDFT	(SFNY)
11435	HM01	16-12	1619	Tue	73826 21261 04866 61101 24257 50585	AM/RDFT	(DSch)
11530	HM01	16-12	1730	Tue	73826 21261 04866 61101 24257 50585	AM/RDFT	(DSch)
16180	HM01	16-12	2115	Tue	73826 21261 04866 61101 24257 50585	AM/RDFT	(DSch)
17480	HM01	16-12	2204	Tue	73826 21261 04866 61101 24257 50585	AM/RDFT	(DSch/Dan)
5855	HM01	17-12	0500	Wed	73826 21261 04866 61101 24257 50585	AM/RDFT	(SFNY)
10345	HM01	17-12	0600	Wed	73826 21261 04866 61101 24257 50585	AM/RDFT	(SFNY)
9240	HM01	17-12	0900	Wed	73826 21261 04866 61101 24257 50585	AM/RDFT	(AB)
11635	HM01	17-12	1813	Wed	73827 21262 04867 61101 01221 50586	AM/RDFT	(DSch)
11635	HM01	17-12	1813	Wed	73827 21262 04867 61101 01221 50586	AM/RDFT	(DSch)
11462	HM01	18-12	0500	Thu	73827 21262 04867 61101 01221 50586	AM/RDFT	(SFNY)
11462	HM01	18-12	0930	Thu	73827 21262 04867 61101 01221 50586	AM/RDFT	(AB)
12180	HM01	18-12	1000	Thu	73827 21262 04867 61101 01221 50586	AM/RDFT	(AB)
16180	HM01	18-12	2105	Thu	33371 21263 04868 61102 01221 50587	AM/RDFT	(DSch)
16180	HM01	18-12	2110	Thu	21263 04868 61102 01221 50587 33371	AM/RDFT	(Dan)
17480	HM01	18-12	2200	Thu	33371 21263 04868 61102 01221 50587	AM/RDFT	(DSch)
5855	HM01	19-12	0500	Fri	33371 21263 04868 61102 01221 50587	AM/RDFT	(SFNY)
10345	HM01	19-12	0600	Fri	33371 21263 04868 61102 01221 50587	AM/RDFT	(SFNY)
9330	HM01	19-12	0730	Fri	33371 21263 04868 61102 01221 50587	AM/RDFT	(AB)
9065	HM01	19-12	0800	Fri	33371 21263 04868 61102 01221 50587	AM/RDFT	(AB)
9240	HM01	19-12	0900	Fri	33371 21263 04868 61102 01221 50587	AM/RDFT	(AB)
5855	HM01	19-12	1000	Fri	33371 21263 04868 61102 01221 50587 //9155 kHz	AM/RDFT	(AB)
9155	HM01	19-12	1000	Fri	33371 21263 04868 61102 01221 50587 //5855 kHz	AM/RDFT	(AB)
11435	HM01	19-12	1631	Fri	33371 21264 88261 61103 01222 65121	AM/RDFT	(DSch)
11530	HM01	19-12	1746	Fri	33371 21264 88261 61103 01222 65121	AM/RDFT	(DSch)
11635	HM01	19-12	1810	Fri	33371 21264 88261 61103 01222 65121	AM/RDFT	(DSch)
11635	HM01	19-12	2106	Fri	33371 21264 88261 61103 01222 65121	AM/RDFT	(DSch)
10715	HM01	19-12	2200	Fri	33371 21264 88261 61103 01222 65121	AM/RDFT	(DSch)
11462	HM01	20-12	0500	Sat	33371 21264 88261 61103 01222 65121	AM/RDFT	(SFNY)
9330	HM01	20-12	0600	Sat	33371 21264 88261 61103 01222 65121	AM/RDFT	(SFNY)
12180	HM01	20-12	1000	Sat	33371 21264 88261 61103 01222 65121	AM/RDFT	(AB)
11435	HM01	20-12	1601	Sat	33372 21265 88261 61104 02223 65121	AM/RDFT	(DSch)
11530	HM01	20-12	1700	Sat	33372 21265 88261 61104 02223 65121	AM/RDFT	(DSch)
11635	HM01	20-12	1834	Sat	33372 21265 88261 61104 02223 65121	AM/RDFT	(DSch)
16180	HM01	20-12	2100	Sat	33372 21265 88261 61104 02223 65121	AM/RDFT	(DSch)
17480	HM01	20-12	2202	Sat	33372 21265 88261 61104 02223 65121	AM/RDFT	(DSch)
5855	HM01	21-12	0500	Sun	33372 21265 88261 61104 01223 65121	AM/RDFT	(SFNY)
10345	HM01	21-12	0600	Sun	33372 21265 88261 61104 01223 65121	AM/RDFT	(SFNY)
10345	HM01	21-12	0630	Sun	33372 21265 88261 61104 01223 65121	AM/RDFT	(AB)
9330	HM01	21-12	0700	Sun	33372 21265 88261 61104 01223 65121	AM/RDFT	(AB)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
9065	HM01	21-12	0800	Sun	33372 21265 88261 61104 01223 65121	AM/RDFT	(AB)
9240	HM01	21-12	0900	Sun	33372 21265 88261 61104 01223 65121	AM/RDFT	(AB)
9155	HM01	21-12	1000	Sun	33372 21265 88261 61104 01223 65121 //5855 kHz	AM/RDFT	(AB)
5855	HM01	21-12	1000	Sun	33372 21265 88261 61104 01223 65121 //9155 kHz	AM/RDFT	(AB)
11435	HM01	21-12	1605	Sun	33373 21266 28262 61105 01224 65122	AM/RDFT	(DSch)
11530	HM01	21-12	1700	Sun	33373 21266 28262 61105 01224 65122	AM/RDFT	(DSch)
11635	HM01	21-12	1800	Sun	33373 21266 28262 61105 01224 65122	AM/RDFT	(DSch)
11635	HM01	21-12	2115	Sun	33373 21266 28262 61105 01224 65122	AM/RDFT	(DSch)
10715	HM01	21-12	2158	Sun	33373 21266 28262 61105 01224 65122	AM/RDFT	(DSch)
10715	HM01	21-12	2200	Sun	21266 88262 61105 01224 65122 33373	AM/RDFT	(Dan)
5855	HM01	22-12	0500	Mon	33373 21266 88262 61105 01224 65122	AM/RDFT	(SFNY)
10345	HM01	22-12	0600	Mon	33373 21266 88262 61105 01224 65122	AM/RDFT	(SFNY)
10345	HM01	22-12	0630	Mon	33373 21266 28262 61105 01224 65122	AM/RDFT	(AB)
9330	HM01	22-12	0700	Mon	33373 21266 28262 61105 01224 65122	AM/RDFT	(AB)
9065	HM01	22-12	0800	Mon	33373 21266 28262 61105 01224 65122	AM/RDFT	(AB)
9240	HM01	22-12	0900	Mon	33373 21266 28262 61105 01224 65122	AM/RDFT	(AB)
11530	HM01	22-12	1700	Mon	33374 21267 88263 61106 01225 65123	AM/RDFT	(DSch)
11635	HM01	22-12	1800	Mon	33374 21267 88263 61106 01225 65123	AM/RDFT	(DSch)
11635	HM01	22-12	2105	Mon	33374 21267 88263 61106 01225 65123	AM/RDFT	(DSch)
10715	HM01	22-12	2200	Mon	33374 21267 88263 61106 01225 65123 mixing with M08a	AM/RDFT	(DSch)
10715	HM01	22-12	2230	Mon	33540 88263 61106 01225 65123 33374	AM/RDFT	(Dan)
9330	HM01	23-12	0600	Tue	33374 21267 88263 61106 01225 65123	AM/RDFT	(SFNY)
11635	HM01	23-12	1826	Tue	33375 33541 88264 61107 01226 65124	AM/RDFT	(DSch)
16180	HM01	23-12	2105	Tue	33375 33541 88264 61107 01226 65124	AM/RDFT	(DSch)
17480	HM01	23-12	2206	Tue	33375 33541 88264 61107 01226 65124	AM/RDFT	(DSch)
17480	HM01	23-12	2230	Tue	33541 88264 34190 01226 65124 33375	AM/RDFT	(Dan)
8009	HM01	23-12	2300	Tue	33375 33541 88264 61107 01226 65124. Shouldn't be here. Mixed with M08a	AM/RDFT	(DSch)
5855	HM01	24-12	0500	Wed	33375 33541 88264 34190 01226 65124	AM/RDFT	(SFNY)
9240	HM01	24-12	0900	Wed	33375 33541 88264 34190 01226 65124	AM/RDFT	(AB)
11435	HM01	24-12	1614	Wed	33376 33542 88265 34191 31227 65125	AM/RDFT	(DSch)
11530	HM01	24-12	1700	Wed	33376 33542 88265 34191 31227 65125	AM/RDFT	(DSch)
11635	HM01	24-12	1817	Wed	33376 33542 88265 34191 31227 65125	AM/RDFT	(DSch)
11635	HM01	24-12	2105	Wed	33376 33542 88265 34191 31227 65125	AM/RDFT	(DSch)
10715	HM01	24-12	2209	Wed	33376 33542 88265 34191 31227 65125	AM/RDFT	(DSch)
8009	HM01	24-12	2302	Wed	33376 33542 88265 34191 31227 65125. Shouldn't be here. Mixed with M08a	AM/RDFT	(DSch)
9330	HM01	25-12	0600	Thu	33376 33542 88265 34191 01227 65125	AM/RDFT	(SFNY)
17480	HM01	25-12	2200	Thu	33543 88266 34192 01228 65126 33377	AM/RDFT	(Dan)
5855	HM01	26-12	0500	Fri	33377 33543 88266 34192 01228 65126	AM/RDFT	(SFNY)
10715	HM01	26-12	2238	Fri	33544 88367 34193 22121 65127 33378	AM/RDFT	(Dan)
9330	HM01	27-12	0600	Sat	33378 33544 88267 34193 22121 65127	AM/RDFT	(SFNY)
5855	HM01	28-12	0500	Sun	66451 33545 88268 34194 22121 03341	AM/RDFT	(SFNY)
5833	HM01	28-12	0530	Sun	66451 33545 88268 34194 22121 03341	AM/RDFT	(AB)
10345	HM01	28-12	0600	Sun	66451 33545 88268 34194 22121 03341	AM/RDFT	(SFNY)
10345	HM01	28-12	0600	Sun	66451 33545 88268 34194 22121 03341	AM/RDFT	(AB)
9330	HM01	28-12	0700	Sun	66451 33545 88268 34194 22121 03341	AM/RDFT	(AB)
9065	HM01	28-12	0800	Sun	66451 33545 88268 34194 22121 03341	AM/RDFT	(AB)
9240	HM01	28-12	0900	Sun	66451 33545 88268 34194 22121 03341	AM/RDFT	(AB)
11530	HM01	28-12	1700	Sun	66451 33546 88269 34195 22122 03341	AM/RDFT	(DSch)
11635	HM01	28-12	2117	Sun	66451 33546 88269 34195 22122 03341	AM/RDFT	(DSch)
10715	HM01	28-12	2200	Sun	33546 88269 34195 21222 03341 66451	AM/RDFT	(Dan)
10715	HM01	28-12	2230	Sun	66451 33546 88269 34195 22122 03341	AM/RDFT	(DSch)
5855	HM01	29-12	0500	Mon	66451 33546 88269 34195 22122 03341	AM/RDFT	(SFNY)
10345	HM01	29-12	0600	Mon	66451 33546 88269 34195 22122 03341	AM/RDFT	(AB)
10345	HM01	29-12	0600	Mon	66451 33546 88269 34195 22122 03341	AM/RDFT	(SFNY)
9330	HM01	29-12	0700	Mon	66451 33546 88269 34195 22122 03341	AM/RDFT	(AB)
11435	HM01	29-12	1606	Mon	66542 33547 10111 34196 22123 03342	AM/RDFT	(DSch)
11530	HM01	29-12	1700	Mon	66542 33547 10111 34196 22123 03342	AM/RDFT	(DSch)
11635	HM01	29-12	1800	Mon	66542 33547 10111 34196 22123 03342	AM/RDFT	(DSch)
11635	HM01	29-12	2105	Mon	66542 33547 10111 34196 22123 03342	AM/RDFT	(DSch)

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10715	HM01	29-12	2205	Mon	33547 10111 63250 22123 03342 66452	AM/RDFT	(Dan)
10715	HM01	29-12	2233	Mon	66542 33547 10111 34196 22123 03342	AM/RDFT	(DSch)
8009	HM01	29-12	2300	Mon	66542 33547 10111 34196 22123 03342. Unscheduled HM01 mixed with M08a	AM/RDFT	(DSch)
11462	HM01	30-12	0500	Tue	66452 33547 10111 63250 22123 03342	AM/RDFT	(SFNY)
9330	HM01	30-12	0600	Tue	66452 33547 10111 63250 22123 03342	AM/RDFT	(SFNY)
16180	HM01	30-12	2130	Tue	66453 33548 10111 63251 22124 03343	AM/RDFT	(DSch)
16180	HM01	30-12	2130	Tue	33548 10111 63251 22124 03343 66453	AM/RDFT	(Dan)
5855	HM01	31-12	0500	Wed	66453 33548 10111 63251 22124 03348	AM/RDFT	(SFNY)
10345	HM01	31-12	0600	Wed	66453 33548 10111 63251 22124 03348	AM/RDFT	(SFNY)
10715	HM01	31-12	2230	Wed	33549 10112 63252 22125 03344 66454	AM/RDFT	(Dan)
10960	Jammer	21-12	1557	Sun	Chinese jammer jamming the Sound of Hope	AM	(AB)
5320	M01	2-12	1800	Tue	197 581 30 == 50384 15471 21680 09402 ... 55855 97939 99820 83016 = = 581 581 30 30 000	CW	(MPJ)
4490	M01	2-12	2000	Tue	197 304 30 == 27129 50664 27830 73138 ... 65923 23853 30513 12220 = = 304 304 30 30 000	CW	(MPJ)
2655	M01	5-12	2000	Fri	866 866 866 567 567 32 32 == 40707 ...	CW	(PPA)
5466	M01	7-12	0708	Sun	i.p. 937 937 937 30 30 000	CW	(ASF)
2435	M01b	8-12	1910	Mon	853 567 32 == 40707 30857 33154 31790 46368 ... 36923 80747 46813 19011 96508 == 567 32 000	MCW	(MPJ)
3520	M01b	8-12	1910	Mon	853 567 32 == 40707 30857 33154 31790 46368 ... 36923 80747 46813 19011 96508 == 567 32 000	MCW	(MPJ)
3205	M01b	8-12	2010	Mon	375 ____ 32 == 4_807 30757 33154 31790 46368 ... (poor copy)	MCW	(MPJ)
3205	M01b	15-12	2015	Mon	375 567 32 == 40707 30857 33154 317_0 64258 ...	MCW	(MPJ)
4505	M03	15-12	1320	Mon	543/00	CW	(HFD)
4505	M03	15-12	1320	Mon	543/00 == 000	CW	(AB)
13911	M03	19-12	1420	Fri	879/00	CW	(AB)
4505	M03	22-12	1320	Mon	540/33 == 5FGs	CW	(AB)
5358	M03	30-12	1535	Tue	798/00 == 000 (VVV at 1531z)	CW	(AB)
8096	M08a	2-12	1413	Tue	Cuban cut nbrs	CW	(DSch)
7554	M08a	2-12	2200	Tue	Cuban cut nbrs ARGNN NTNWA DNRIN 022000	CW	(DSch)
8135	M08a	2-12	2301	Tue	Cuban cut nbrs	CW	(DSch)
8096	M08a	4-12	1400	Thu	Cuban cut nbrs: RUWIN IIGAN WANWA	CW	(DSch)
7554	M08a	4-12	2013	Thu	Cuban cut nbrs	CW	(DSch)
8096	M08a	5-12	1400	Fri	Cuban cut nbrs: NDIGN DRANN WTUUA	CW	(DSch)
8135	M08a	5-12	2304	Fri	Cuban cut nbrs	CW	(DSch)
7554	M08a	6-12	2000	Sat	Cuban cut nbrs: AGNRN NNWTA DWTNN	CW	(DSch)
8009	M08a	6-12	2309	Sat	Cuban cut nbrs: AGNRN NNWTA DWTNN	CW	(DSch)
8009	M08a	8-12	2300	Mon	Cuban cut nbrs: DDWTA UWDDA RIRRN	CW	(DSch)
8096	M08a	9-12	1400	Tue	Cuban cut nbrs: RNGTA UWDDA GGWWA	CW	(DSch)
7554	M08a	9-12	2009	Tue	Cuban cut nbrs	CW	(DSch)
8135	M08a	9-12	2300	Tue	Cuban cut nbrs: DGA.M UTUAN NWRWN	CW	(DSch)
8096	M08a	10-12	1406	Wed	Cuban cut nrs	CW	(DSch)
8096	M08a	11-12	1405	Thu	Cuban cut nbrs	CW	(DSch)
7554	M08a	11-12	2001	Thu	Cuban cut nbrs	CW	(DSch)
8135	M08a	14-12	2316	Sun	Cuban cut nbrs	CW	(DSch)
8096	M08a	15-12	1640	Mon	Cuban cut nbrs: IDUTA GRINN TTNWN	CW	(DSch)
8009	M08a	15-12	2306	Mon	Cuban cut nbrs	CW	(DSch)
8096	M08a	18-12	1418	Thu	Cuban cut nbrs	CW	(DSch)
7554	M08a	18-12	2002	Thu	Cuban cut nbrs	CW	(DSch)
8135	M08a	18-12	2301	Thu	Cuban cut nbrs	CW	(DSch)
8096	M08a	20-12	1403	Sat	Cuban cut nbrs: AGNRN NNWTA DWTNN	CW	(DSch)
7554	M08a	20-12	2006	Sat	Cuban cut nbrs	CW	(DSch)
8009	M08a	20-12	2301	Sat	Cuban cut nbrs: AGNRN NNWTA DWTNN	CW	(DSch)
8096	M08a	21-12	1401	Sun	Cuban cut nrs: AGNRN NNWTA DWTNN	CW	(DSch)
7554	M08a	21-12	2000	Sun	Cuban cut nbrs: AGNRN NNWTA DWTNN	CW	(DSch)
8135	M08a	21-12	2300	Sun	Cuban cut nbrs	CW	(DSch)
10715	M08a	22-12	2201	Mon	Cuban cut nbrs: DWTGA UGDAN WN mixing with HM01	CW	(DSch)
8096	M08a	23-12	1402	Tue	Cuban cut nbrs: DWTGA UGDAN WNIUA	CW	(AB)
8009	M08a	23-12	2300	Tue	Cuban cut nbrs mixed with HM01	CW	(DSch)
8096	M08a	24-12	1419	Wed	Cuban cut nbrs	CW	(DSch)
8009	M08a	24-12	2302	Wed	Cuban cut nbrs. Mixed with HM01	CW	(DSch)

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8096	M08a	28-12	1407	Sun	Cuban cut nbrs	CW	(DSch)
8096	M08a	29-12	1412	Mon	Cuban cut nbrs	CW	(DSch)
7554	M08a	29-12	2002	Mon	Cuban cut nbrs	CW	(DSch)
8009	M08a	29-12	2300	Mon	Cuban cut nbrs. Mixed with unscheduled HM01	CW	(DSch)
7554	M08a	30-12	2000	Tue	Cuban cut nbrs: WRRRN FRGDTN IAINA	CW	(DSch)
11435	M12	1-12	1700	Mon	938 1	CW	(HFD)
10598	M12	1-12	1720	Mon	938 938 938 1 1453 117 1453 117 56999 41008 20226 ... 46693 36186 27211 000 000	CW	(AB)
10598	M12	1-12	1720	Mon	938 1	CW	(HFD)
9327	M12	1-12	1740	Mon	938 1	CW	(HFD)
9176	M12	1-12	1900	Mon	257 1	CW	(HFD)
7931	M12	1-12	1920	Mon	257 1	CW	(HFD)
6904	M12	1-12	1940	Mon	257 1	CW	(HFD)
8116	M12	2-12	2010	Tue	124 1 1760 55 61517 53365 23622 84961 52367 ... 67698 19283 14060 41417 17318 000 000	CW	(MPJ)
8047	M12	3-12	1800	Wed	463 1 8930 93 68135 23964 64157 18319 04731 ... 17105 20384 21942 86400 41892 000 000	CW	(MPJ)
5788	M12	3-12	1840	Wed	463 1 8930 93 68135 23964 64157 18319 04731 ... 17105 20384 21942 86400 41892 000 000	CW	(MPJ)
13569	M12	4-12	1010	Thu	582 582 582 1 5853 133 5853 133 90230 07270 17365 ... 57590 62572 50309 000 000	CW	(AB)
14869	M12	4-12	1030	Thu	582 582 582 1 5853 133 5853 133 90230 07270 17365 ... 57590 62572 50309 000 000	CW	(AB)
16269	M12	4-12	1050	Thu	582 582 582 1 5853 133 5853 133 90230 07270 17365 ... 57590 62572 50309 000 000	CW	(AB)
10343	M12	4-12	1800	Thu	124 1	CW	(HFD)
9264	M12	4-12	1820	Thu	124 1	CW	(HFD)
8116	M12	4-12	1840	Thu	124 1	CW	(HFD)
18576	M12	6-12	0020	Sat	548 548 548 000	CW	(Token)
17436	M12	6-12	0040	Sat	548 548 548 000	CW	(Token)
4457	M12	8-12	0530	Mon	417 0	CW	(HFD)
5157	M12	8-12	0550	Mon	417 0	CW	(HFD)
11435	M12	8-12	1700	Mon	938 1 2453 117 35403 80014 16373 64689 55816 ... 36822 98985 12075 98019 84878 000 000	CW	(MPJ)
7931	M12	8-12	1729	Mon	i.p.	CW	(Lio)
9327	M12	8-12	1740	Mon	938 1 2453 117 35403 80014 16373 64689 55816 ... 36822 98985 12075 98019 84878 000 000	CW	(MPJ)
8047	M12	8-12	1800	Mon	237 147 55858 88245 30074 79983 84301 ... 50990 10393 02255 _1200 76694 000 000	CW	(MPJ)
6802	M12	8-12	1820	Mon	237 147 55858 88245 30074 79983 84301 ... 50990 10393 02255 _1200 76694 000 000	CW	(MPJ)
7931	M12	8-12	1920	Mon	257 1 2305 119 62606 45033 98747 26224 89501 ... 53064 89121 79277 60516 19 _85 000 000	CW	(MPJ)
6904	M12	8-12	1940	Mon	257 1 2305 119 62606 45033 98747 26224 89501 ... 53064 89121 79277 60516 19 _85 000 000	CW	(MPJ)
18576	M12	10-12	0020	Wed	548 548 548 1 567 113 ...	CW	(Token)
17436	M12	10-12	0030	Wed	548 548 548 1 567 113 ..	CW	(Token)
15826	M12	10-12	0100	Wed	548 548 548 1 567 113 ..	CW	(Token)
5312	M12	10-12	2200	Wed	350 1	CW	(HFD)
4512	M12	10-12	2220	Wed	350 0	CW	(HFD)
4012	M12	10-12	2240	Wed	350 1	CW	(HFD)
5284	M12	11-12	0730	Thu	277 0	CW	(HFD)
5784	M12	11-12	0753	Thu	277 0	CW	(HFD)
13569	M12	11-12	1010	Thu	582 0	CW	(HFD)
14869	M12	11-12	1030	Thu	582 0	CW	(HFD)
14869	M12	11-12	1030	Thu	582 582 582 000	CW	(AB)
12189	M12	11-12	1720	Thu	725 725 725 1 7689 108 7689 108 16067 90153 27475 81665 89618 37355 80641 ... 000 000	CW	(AB)
14869	M12	14-12	1030	Sun	582 582 582 000	CW	(AB)
6904	M12	15-12	1941	Mon	257 1 3805 108 3805 108 32183 96585 26936 ... 37656 15146 24130 000 000	CW	(ASF)
18576	M12	17-12	0020	Wed	548 548 548 000	CW	(Token)
17436	M12	17-12	0040	Wed	548 548 548 000	CW	(Token)
13569	M12	21-12	1010	Sun	582 582 582 000	CW	(AB)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
14869	M12	28-12	1030	Sun	582 1 4833 159 82517 14571 93924 ... 18774 73265 54680 000 000	CW	(AB)
13569	M12	28-12	1030	Sun	582 1 4833 159 82517 14571 93924 ... 18774 73265 54680 000 000	CW	(AB)
16269	M12	28-12	1050	Sun	582 1 4833 159 82517 14571 93924 ... 18774 73265 54680 000 000	CW	(AB)
4457	M12	29-12	0531	Mon	451 451 451 000	CW	(ASF)
5374	M14	5-12	1700	Fri	382 382 382 00000	MCW	(MPJ)
4975	M14	5-12	1800	Fri	382 0	CW	(HFD)
4975	M14	5-12	1800	Fri	382 382 382 00000	MCW	(MPJ)
10755	M14	9-12	1242	Tue	i.p. = 264 264 264 53 53 000	CW	(ASF)
5375	M14	19-12	1700	Fri	382 382 382 00000	CW	(MPJ)
4975	M14	19-12	1800	Fri	382 382 382 00000	CW	(AB/MPJ)
5561	M14	20-12	0900	Sat	171	CW	(HFD)
4636	M14	23-12	1820	Tue	186 1 275 020 020 51059 23438 76167 ... 84274 96823 17105 275 275 020 020 00000	MCW	(MPJ)
6792	M14	27-12	0703	Sat	910 1 247 53 and = 67901 97939 50530 ...	CW	(ASF)
6792	M14	27-12	1701	Sat	910 1 573 21 = 57142 55317 94814 ... 10971 67133 08435 = = 573 21 00000	CW	(AFS)
4496	M14	27-12	1732	Sat	910 1 573 21 = 57142 55317 94814 ... 10971 67133 08435 = = 573 21 00000	CW	(AFS)
18041	M14	31-12	0500	Wed	952 418 60 = = 66497 28660 00625 ... 80292 82996 18483 = = 418 60 00000	CW	(EW)
6491	M21	15-12	0948	Mon	PVO =991409??8?????	CW	(Lio)
3322	M21	15-12	1749	Mon	PVO =992253??T?????	CW	(Lio)
4904	M21	15-12	2012	Mon	PVO =99T115??8?????	CW	(Lio)
3322	M21	20-12	2116	Sat	=990019??0????? =990020??0?????	CW	(JPL-Sib)
4865.5	M21	30-12	1751	Tue	Russian Air Defence =992051??8????? etc.	CW	(MPJ)
4951.5	M21	30-12	1756	Tue	Russian Air Defence =992059??0????? etc.	CW	(MPJ)
6607	M22	5-12	1744	Fri	VVV DE 4XZ 4XZ =	CW	(ASF)
2680	M22	7-12	1829	Sun	VVV DE 4XZ 4XZ =	CW	(ASF)
14411	M32	1-12	0806	Mon	xxx xxx wegi wegi 19482 92067 dezena 6930 3516 k //18.1, 7657, 8696, 9346, 11468, 12631, 17460, 19210 kHz	CW	(TJ)
4648	M32	4-12	0930	Thu	1ShchRF 85 780 PLYuS 7260 2368	CW	(DJPr)
6922	M32	10-12	1015	Wed	X4MY DE 3LS9 K R K	CW	(JPL-Sib)
4582	M32	10-12	1929	Wed	xxx xxx wegi wegi 29321 14124 batula 2947 2593 k	CW	(TJ)
4582	M32	10-12	1929	Wed	xxx xxx rgt77 rgt77 29473 18919 mititika 7105 3928 k	CW	(TJ)
5418	M32	26-12	1829	Fri	XXX WEGI 99046 POZNEJ 6405 1538 K	CW	(ASF)
5077	M32	29-12	1109	Mon	MDZhB 81 062 VYeRShYeNNYJ 2268 2567 (also in voice by S28)	CW	(DJPr)
5707	M32	29-12	1408	Mon	WEGI ?8 479 NYeGRITOS 9974 2217	CW	(DJPr)
4648	M32	30-12	0743	Tue	1ShchRF 87 128 ASKLYeTOK 0940 6698 PRYaNiChNIK 7958 8612	CW	(DJPr)
4648	M32	30-12	0745	Tue	1ShchRF 89 005 VRYeMYeNShchiK 7909 6289 ARGINAZA 8115 6268	CW	(DJPr)
4648	M32	30-12	0748	Tue	1ShchRF 71 4?? MOChKOVITYJ 0?59 6628 ASMANIT ?252 1569	CW	(DJPr)
4648	M32	30-12	0754	Tue	1ShchRF 34 033 POLYSYeNIYe 9261 2197	CW	(DJPr)
4648	M32	30-12	0757	Tue	1ShchRF 46 626 URYeTRA 1115 4595	CW	(DJPr)
4648	M32	30-12	0801	Tue	1ShchRF 91 793 POLOJ 1546 2962 OTDANKA 3504 9804	CW	(DJPr)
4648	M32	30-12	0803	Tue	1ShchRF 68 852 BITYeDTKA 2306 6074	CW	(DJPr)
4648	M32	30-12	0810	Tue	1ShchRF 42 009 PROKONSUH 2302 7872 MOLVUSHa 1115 4714	CW	(DJPr)
4648	M32	30-12	0815	Tue	1ShchRF 64 296 VREMENSchiK 7909 6289	CW	(DJPr)
4648	M32	30-12	0819	Tue	1ShchRF 59 372 KRAPINA 6896 5206	CW	(DJPr)
4648	M32	30-12	0827	Tue	1ShchRF 19 022 OTMYeLINA 6896 5783 HOLOTRAST 0192 1644	CW	(DJPr)
4648	M32	30-12	0834	Tue	1ShchRF 08 907 TRYePYHANIYe 5358 8908	CW	(DJPr)
4648	M32	30-12	0845	Tue	1ShchRF 27 552 BRYeZYeLYeJN 4939 8947 BRIOFIT 8922 3899	CW	(DJPr)
4648	M32	30-12	0849	Tue	1ShchRF 68 123 OTNOGA 0570 4379	CW	(DJPr)
4648	M32	30-12	0851	Tue	1ShchRF 94 222 POLITURNYJ 3655 7632	CW	(DJPr)
4648	M32	30-12	0922	Tue	MSK7 85 017 POLUT'MA 9922 3973	CW	(DJPr)
4648	M32	30-12	0927	Tue	MSK7 35 662 MOROZOBOIN 8378 5201	CW	(DJPr)
4648	M32	30-12	0930	Tue	MSK7 80 209 ARHANGYeLYeC 3841 8350	CW	(DJPr)
4648	M32	30-12	0933	Tue	MSK7 43 683 KOMPAKTNYJ 4400 5504	CW	(DJPr)
4648	M32	30-12	0935	Tue	MSK7 10 201 URIL'NIK 0511 7601	CW	(DJPr)
4648	M32	30-12	0942	Tue	MSK7 81 054 TRYeZUB 9497 3312	CW	(DJPr)
4648	M32	30-12	0947	Tue	MSK7 90 096 GROZNYeNYeC 5065 7535 STYeNOLAZ 4400 5504	CW	(DJPr)
4648	M32	30-12	0950	Tue	MSK7 22 393 FOTINIYa 0511 7601 SUBBOTA 9497 3312	CW	(DJPr)
4648	M32	30-12	0952	Tue	MSK7 40 742 PONUZhDYeNIYe 6938 1458	CW	(DJPr)
4648	M32	30-12	0954	Tue	MSK7 41 564 ZhUKOLKA 8392 0327	CW	(DJPr)

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4648	M32	30-12	1001	Tue	MSK7 49 760 DOMATRIN 5028 9515	CW	(DJPr)
21438	M32a	3-12	0831	Wed	RCV with NAV warnings for RIP90 Collective Turkish waters	CW	(G7PXK)
8345	M32a	21-12	0904	Sun	RHO62: Navy Ship Admiral Vladimirskiy. RHO62 576 16 21 1203 576 = SML FOR RJD38 RJH74 =	CW	(Tom)
8112	M32c	7-12	0600	Sun	W-markers. Russian Air Force Tu-95MS Bear H net	CW	(Tom)
8112	M32c	7-12	1800	Sun	W-markers. Russian Air Force Tu-95MS Bear H net	CW	(Tom)
8112	M32c	8-12	1240	Mon	W-marker Bears Net, also at 1300 and 1340 UTC	CW	(MPJ)
8112	M32c	9-12	0700	Tue	W-markers. Russian Air Force Tu-95MS Bear H net	CW	(Tom)
8112	M32c	26-12	0800	Fri	W-markers: Tu-95MS Bear H net	CW	(Tom)
5402.5	M41	10-12	1711	Wed	72219495039973448228710601906 RPT 72219495039973448228710601906 5EQB AR	CW	(ASF)
4985	M41	13-12	1603	Sat	VVV VVV VVV EEEEE 00978899658 2 991001858512800 and 0087929993 1199100810511800	CW	(ASF)
5226	M41	14-12	1534	Sun	i.p 1191731501722 QBOA K VVV VVV EEEE VVV VVV H8LI 7221949721996315119 1731501722 H8LI K AR AR	CW	(ASF)
5226	M41	14-12	1547	Sun	i.p. 29969632165720901 H8LI K 72219495029969631165720901745 K AR AR	CW	(ASF)
5226	M41	19-12	1646	Fri	VVV VVV PYQI 72219495039989652161710701839 RPT 72219495039989652161710701839 NJJ4	CW	(ASF)
5226	M41	19-12	1647	Fri	VVVV VVV PGXA 722194950299 79178128721401515 NJJ4 K	CW	(ASF)
5740	M41	22-12	1702	Mon	JV3T WZD 006401 63176 6371 60 13 ABV 006401 63176 66716013 722 5116 401	CW	(ASF)
5226	M41	24-12	1628	Wed	722155 95029 98 9659161 72180 18 14 RPT 7722155 95029 98 9659161 72180 18 14 LJ5Y K	CW	(AFS)
5226	M41	26-12	1614	Fri	ZGEA 722 195 97 44 9975 16 9 16170 00 0018 03 RPT 722 195 97 44 9975 16 9 16170 00 0018 03 RPT ABEZ K	CW	(AFS)
5740	M41	26-12	1625	Fri	VVV JV3T JV3T AR	CW	(AFS)
5740	M41	26-12	1633	Fri	JV3T WZD 6401 631 4328 7180 33 ABV 6401 631 4328 7180 33 WZD 722 511 6401 800 34 AR	CW	(AFS)
9176	M42	2-12	1200	Tue	Russian diplo/intel. Msg 087 on link 45136	FSK 200/1000	(AB/MPJ)
7624	M42	2-12	1210	Tue	Russian diplo/intel. Msg 087 on link 45136	FSK 200/1000	(AB/MPJ)
7845	M42	2-12	1700	Tue	Russian diplo/intel. Msg Nr 002 on Link 20501	FSK 200/1000	(MPJ)
5269	M42	2-12	1710	Tue	Russian diplo/intel. Msg Nr 002 on Link 20501	FSK 200/1000	(MPJ)
17478	M42	3-12	1222	Wed	Russian diplo/intel. Msg on Link 53277	FSK 200/1000	(MPJ)
15838	M42	3-12	1240	Wed	Russian diplo/intel. Msg on Link 53277	FSK 200/1000	(MPJ)
13387	M42	3-12	1250	Wed	Russian diplo/intel. Msg on Link 53277	FSK 200/1000	(MPJ)
7477	M42	4-12	0720	Thu	Russian diplo/intel. Msg 095 on link 45137	FSK 200/1000	(AB)
7622	M42	4-12	1210	Thu	Russian diplo/intel. Msg 095 on link 45137	FSK 200/1000	(AB)
5784	M42	4-12	2000	Thu	Russian Gov. net	FSK 200/500	(HFD)
4577	M42	4-12	2010	Thu	Russian Gov. net	FSK 200/500	(HFD)
3863	M42	4-12	2020	Thu	Russian Gov. net	FSK 200/500	(HFD)
20562	M42	6-12	1300	Sat	Russian Gov. net	FSK 200/500	(HFD)
18194	M42	6-12	1310	Sat	Russian Gov. net	FSK 200/500	(HFD)
16107	M42	6-12	1320	Sat	Russian Gov. net	FSK 200/500	(HFD)
9176	M42	8-12	1200	Mon	Russian diplo/intel. Msg 100 on link 45136	FSK 200/1000	(AB)
7622	M42	8-12	1210	Mon	Russian diplo/intel. Msg 100 on link 45136	FSK 200/1000	(AB)
14655	M42	9-12	1302	Tue	Russian diplo, i.p.	CROWD-36	(AB)
7843	M42	9-12	1700	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB)
5267	M42	9-12	1710	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB)
20841	M42	9-12	2000	Tue	Russian diplo SWO 1/320 11100 00117 58913 01012 8xxxx	Baudot 75/500 & OFDM	(MCO)
9350	M42	10-12	0855	Wed	Russian diplo	CROWD-36	(AB)
20762.5	M42	10-12	1045	Wed	Russian diplo RYRYRY GRV GRV GRV 1/305 11100 50024 48953 10036 03059	Baudot 75/500	(CLB)
9176	M42	10-12	1201	Wed	Russian diplo/intel. Msg 107 on link 45137	FSK 200/1000	(AB)
7622	M42	10-12	1210	Wed	Russian diplo/intel. Msg 107 on link 45137	FSK 200/1000	(AB)
9176	M42	11-12	1200	Thu	Russian diplo/intel. Msg 110 on link 45136	FSK 200/1000	(AB)
7622	M42	11-12	1210	Thu	Russian diplo/intel. Msg 110 on link 45136	FSK 200/1000	(AB)
10213	M42	11-12	1556	Thu	Russian diplo	CROWD-36	(GHn)
11044	M42	12-12	0700	Fri	Russian diplo/intel. Msg 057 on link 45136	FSK 200/1000	(AB)
9063	M42	12-12	0710	Fri	Russian diplo/intel. Msg 057 on link 45136	FSK 200/1000	(AB)
7477	M42	12-12	0720	Fri	Russian diplo/intel. Msg 057 on link 45136	FSK 200/1000	(AB)
16312	M42	13-12	1020	Sat	Russian diplo/intel. Msg 165 on link 45057	FSK 200/1000	(AB)
18368	M42	13-12	1547	Sat	Russian diplo/intel.	FSK 200/1000	(MCO)

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8129	M42	13-12	1810	Sat	RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
6822	M42	13-12	1820	Sat	RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
4469	M42	13-12	1830	Sat	RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
18189	M42	14-12	0900	Sun	Russian diplo/intel. Msg 237 on link 45114	FSK 200/1000	(AB)
16125	M42	14-12	0910	Sun	Russian diplo/intel. Msg 237 on link 45114	FSK 200/1000	(AB)
20949	M42	14-12	1000	Sun	Russian diplo/intel. Msg 165 on link 45057	FSK 200/1000	(AB)
18641	M42	14-12	1010	Sun	Russian diplo/intel. Msg 165 on link 45057	FSK 200/1000	(AB)
16312	M42	14-12	1020	Sun	Russian diplo/intel. Msg 165 on link 45057	FSK 200/1000	(AB)
19846	M42	14-12	1100	Sun	Russian diplo/intel. Msg 232 on link 36882	FSK 200/1000	(AB)
17471	M42	14-12	1110	Sun	Russian diplo/intel. Msg 232 on link 36882	FSK 200/1000	(AB)
15665	M42	14-12	1120	Sun	Russian diplo/intel. Msg 232 on link 36882	FSK 200/1000	(AB)
11044	M42	15-12	0700	Mon	Russian diplo/intel. Msg 115 on link 45136	FSK 200/1000	(AB)
9063	M42	15-12	0710	Mon	Russian diplo/intel. Msg 115 on link 45136	FSK 200/1000	(AB)
7477	M42	15-12	0720	Mon	Russian diplo/intel. Msg 115 on link 45136	FSK 200/1000	(AB)
9176	M42	15-12	1200	Mon	Russian diplo/intel. Msg 115 on link 45136	FSK 200/1000	(AB)
7622	M42	15-12	1210	Mon	Russian diplo/intel. Msg 115 on link 45136	FSK 200/1000	(AB)
9176	M42	16-12	1200	Tue	Russian diplo/intel. Msg 117 on link 45137	FSK 200/1000	(AB)
7622	M42	16-12	1210	Tue	Russian diplo/intel. Msg 117 on link 45137	FSK 200/1000	(AB)
17444	M42	16-12	1400	Tue	Russian diplo/intel. Msg 090 on link 32799	FSK 200/1000	(AB)
15872	M42	16-12	1410	Tue	Russian diplo/intel. Msg 090 on link 32799	FSK 200/1000	(AB)
5434	M42	16-12	2200	Tue	Russian diplo/intel. Msg 007 on link 45057	FSK 200/1000	(AB)
4617	M42	16-12	2210	Tue	Russian diplo/intel. Msg 007 on link 45057	FSK 200/1000	(AB)
9176	M42	17-12	1200	Wed	Russian diplo/intel. Msg 122 on link 45137	FSK 200/1000	(AB/MPJ)
7622	M42	17-12	1210	Wed	Russian diplo/intel. Msg 122 on link 45137	FSK 200/1000	(AB)
17476	M42	17-12	1230	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB/MPJ)
15836	M42	17-12	1240	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB/MPJ)
13385	M42	17-12	1250	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB/MPJ)
5089	M42	17-12	1710	Wed	Russian diplo/intel. Msg 80 on link 03667	FSK 200/1000	(IW)
4563	M42	17-12	1723	Wed	Russian diplo/intel. Msg 80 on link 03667	FSK 200/1000	(AB)
11044	M42	18-12	0700	Thu	Russian diplo/intel. Msg 125 on link 45136	FSK 200/1000	(AB)
9063	M42	18-12	0710	Thu	Russian diplo/intel. Msg 125 on link 45136	FSK 200/1000	(AB)
7477	M42	18-12	0720	Thu	Russian diplo/intel. Msg 125 on link 45136	FSK 200/1000	(AB)
9176	M42	18-12	1200	Thu	Russian diplo/intel. Msg 125 on link 45136	FSK 200/1000	(AB)
7622	M42	18-12	1210	Thu	Russian diplo/intel. Msg 125 on link 45136	FSK 200/1000	(AB)
11044	M42	19-12	0700	Fri	Russian diplo/intel. Msg 057 on link 45136	FSK 200/1000	(AB)
9063	M42	19-12	0710	Fri	Russian diplo/intel. Msg 057 on link 45136	FSK 200/1000	(AB)
7477	M42	19-12	0720	Fri	Russian diplo/intel. Msg 057 on link 45136	FSK 200/1000	(AB)
20562	M42	20-12	1302	Sat	Russian Intel: 00000+++++++162)5761	FSK 200/500	(AAI)
18194	M42	20-12	1310	Sat	Russian Intel: 00000+++++++162)5761	FSK 200/500	(AAI)
18189	M42	21-12	0900	Sun	Russian diplo/intel. Msg 240 on link 45115	FSK 200/1000	(AB)
16125	M42	21-12	0910	Sun	Russian diplo/intel. Msg 240 on link 45115	FSK 200/1000	(AB)
14367	M42	21-12	0920	Sun	Russian diplo/intel. Msg 240 on link 45115	FSK 200/1000	(AB)
19846	M42	21-12	1100	Sun	Russian diplo/intel. Msg 237 on link 36882	FSK 200/1000	(AB/MPJ)
17471	M42	21-12	1110	Sun	Russian diplo/intel. Msg 237 on link 36882	FSK 200/1000	(AB/MPJ)
11487	M42	21-12	1530	Sun	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/MPJ)
9232	M42	21-12	1540	Sun	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/MPJ)
7819	M42	21-12	1550	Sun	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/MPJ/AAI)
11044	M42	22-12	0700	Mon	Russian diplo/intel. Msg 130 on link 45137	FSK 200/1000	(AB)
9063	M42	22-12	0710	Mon	Russian diplo/intel. Msg 130 on link 45137	FSK 200/1000	(AB)
7477	M42	22-12	0720	Mon	Russian diplo/intel. Msg 130 on link 45137	FSK 200/1000	(AB)
9176	M42	22-12	1200	Mon	Russian diplo/intel. Msg 130 on link 45137	FSK 200/1000	(AB)
7622	M42	22-12	1210	Mon	Russian diplo/intel. Msg 130 on link 45137	FSK 200/1000	(AB)
5787	M42	22-12	1220	Mon	Russian diplo/intel. Msg 130 on link 45137	FSK 200/1000	(AB)
9176	M42	23-12	1200	Tue	Russian diplo/intel. Msg 132 on link 45136	FSK 200/1000	(AB)
7622	M42	23-12	1210	Tue	Russian diplo/intel. Msg 132 on link 45136	FSK 200/1000	(AB)
5787	M42	23-12	1220	Tue	Russian diplo/intel. Msg 132 on link 45136	FSK 200/1000	(AB)
17444	M42	23-12	1400	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/MPJ/AAI)
14872	M42	23-12	1410	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/MPJ)
13521	M42	23-12	1420	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/MPJ)

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9228	M42	23-12	1650	Tue	Russian diplo/intel. Msg 140 on link 20501	FSK 200/1000	(MPJ)
5267	M42	23-12	1710	Tue	Russian diplo/intel. Msg 140 on link 20501	FSK 200/1000	(AB/MPJ)
7845	M42	23-12	1710	Tue	Russian diplo/intel. Msg 140 on link 20501	FSK 200/1000	(MPJ)
11044	M42	24-12	0700	Wed	Russian diplo/intel. Msg 137 on link 45137	FSK 200/1000	(AB)
9063	M42	24-12	0710	Wed	Russian diplo/intel. Msg 137 on link 45137	FSK 200/1000	(AB)
7477	M42	24-12	0720	Wed	Russian diplo/intel. Msg 137 on link 45137	FSK 200/1000	(AB)
19980	M42	24-12	1003	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
18492	M42	24-12	1004	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
16120	M42	24-12	1005	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
13410	M42	24-12	1007	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
20963	M42	24-12	1015	Wed	Russian diplo/intel. Msg 062 on link 20492: 48500 13925 28839 36078 31284 33521 40014 23111	FSK 200/1000	(Danix)
18619	M42	24-12	1025	Wed	Russian diplo/intel. Msg 062 on link 20492: 48500 13925 28839 36078 31284 33521 40014 23111	FSK 200/1000	(Danix)
16348	M42	24-12	1035	Wed	Russian diplo/intel. Msg 062 on link 20492: 48500 13925 28839 36078 31284 33521 40014 23111	FSK 200/1000	(Danix)
14381	M42	24-12	1318	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
10153	M42	24-12	1326	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
8123	M42	24-12	1331	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
16227	M42	24-12	1338	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
12188	M42	24-12	1344	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
10231	M42	24-12	1346	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
14656	M42	24-12	1403	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
16321	M42	24-12	1403	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
11627	M42	24-12	1407	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
14981	M42	24-12	1415	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
13518	M42	24-12	1419	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
19579	M42	24-12	1424	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
16333	M42	24-12	1425	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
14876	M42	24-12	1429	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
13464	M42	24-12	1432	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
10181	M42	24-12	1435	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
16271	M42	24-12	1445	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
13892	M42	24-12	1446	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
12077	M42	24-12	1449	Wed	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
9127	M42	25-12	1621	Thu	Russian diplo	CROWD-36	(Danix)
10165	M42	26-12	1342	Fri	K4MT de NT9P K. ZYC ZVP K. R 515 13468 QTC1 ZYC (into FSK 50/500 tfc) CFM NIL SK	FSK 50/500 + CW	(AFS)
9206	M42	26-12	1342	Fri	NT9P de K4MT K. QTC1 ZYC K (into FSK 50/500 tfc) CFM K. QRV K. R 616 1349 K. QRU? NIL SK	FSK 50/500 + CW	(AFS)
4562	M42	27-12	0341	Sat	7ZGR de PR60 K. QSA ZYC ZVP K. SLV K. R 678 0345 QTC1 K. SLD into RTTY FSK 50/500 + CW ends with ops chat NIL SK	FSK 50/500 + CW	(ASF)
20949	M42	27-12	1000	Sat	Russian diplo/intel. Msg 165 on link 45057	FSK 200/1000	(AB)
19846	M42	27-12	1100	Sat	Russian diplo/intel. Msg 240 on link 36882	FSK 200/1000	(AB)
17471	M42	27-12	1110	Sat	Russian diplo/intel. Msg 240 on link 36882	FSK 200/1000	(AB)
15665	M42	27-12	1120	Sat	Russian diplo/intel. Msg 240 on link 36882	FSK 200/1000	(AB)
16105	M42	27-12	1320	Sat	Russian diplo/intel. Null message: RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
10672	M42	27-12	1405	Sat	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
13371	M42	27-12	1409	Sat	Russian Governmental net. RT BZ126	FSK 50/500	(linkz)
20648	M42	27-12	1500	Sat	Msg Nr 042/26th Type 07145 on Link 32821 Gr136: 55301 42984 44157 40248 33847	FSK 200/1000	(MPJ)
18483	M42	27-12	1510	Sat	Msg Nr 042/26th Type 07145 on Link 32821 Gr136: 55301 42984 44157 40248 33847	FSK 200/1000	(MPJ)
5469	M42	27-12	1545	Sat	AIFH wkg CDAP. QSO and QRU ? and QRV	CW	(AFS)
18190	M42	28-12	0900	Sun	Russian diplo/intel. Msg 242 on link 45114	FSK 200/1000	(AB)
16125	M42	28-12	0910	Sun	Russian diplo/intel. Msg 242 on link 45114	FSK 200/1000	(AB)
14367	M42	28-12	0920	Sun	Russian diplo/intel. Msg 242 on link 45114	FSK 200/1000	(AB)
20949	M42	28-12	1000	Sun	Russian diplo/intel. Msg 165 on link 45057	FSK 200/1000	(AB)
18641	M42	28-12	1010	Sun	Russian diplo/intel. Msg 165 on link 45057	FSK 200/1000	(AB)
16312	M42	28-12	1020	Sun	Russian diplo/intel. Msg 165 on link 45057	FSK 200/1000	(AB)
19846	M42	28-12	1100	Sun	Russian diplo/intel. Msg 240 on link 36882	FSK 200/1000	(AB)
17471	M42	28-12	1110	Sun	Russian diplo/intel. Msg 240 on link 36882	FSK 200/1000	(AB)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
15665	M42	28-12	1120	Sun	Russian diplo/intel. Msg 240 on link 36882	FSK 200/1000	(AB)
11489	M42	28-12	1530	Sun	Russian Diplo/Intel. Msg Nr 002/28th Gr-4 Type 07145 on Link 20501	FSK 200/1000	(MPJ)
9234	M42	28-12	1540	Sun	Russian Diplo/Intel. Msg Nr 002/28th Gr-4 Type 07145 on Link 20501	FSK 200/1000	(MPJ)
5931	M42	28-12	1541	Sun	AIFH de CDAP K. QSA ZCZ K into RTTY ends with ops chat QRU? K. ZCZ ZVP R 174 1547 NIL SK	FSK 50/500 + CW	(ASF)
5469	M42	28-12	1541	Sun	CDAP de AIFH K. QSA QRV R 299 1543 K. QTC1 K. into RTTY ends with ops chat CFM K NIL SK	FSK 50/500 + CW	(ASF)
7821	M42	28-12	1550	Sun	Russian Diplo/Intel. Msg Nr 002/28th Gr-4 Type 07145 on Link 20501	FSK 200/1000	(MPJ)
4538	M42	28-12	1710	Sun	Ops chat DATZ de VFGK QSA 1 QSY 78 239 (QSX 4816 kHz)	CW	(ASF)
4816	M42	28-12	1710	Sun	Ops chat VFGK de DATZ K (QXS 4538 kHz)	CW	(ASF)
11044	M42	29-12	0700	Mon	Russian diplo. Msg 145 on link 45137	FSK 200/1000	(AB)
9063	M42	29-12	0710	Mon	Russian diplo. Msg 145 on link 45137	FSK 200/1000	(AB)
7477	M42	29-12	0720	Mon	Russian diplo. Msg 145 on link 45137	FSK 200/1000	(AB)
9176	M42	29-12	1200	Mon	Russian diplo/intel. Msg 145 on link 45169	FSK 200/1000	(AB)
7622	M42	29-12	1210	Mon	Russian diplo/intel. Msg 145 on link 45169	FSK 200/1000	(AB)
4816	M42	29-12	1719	Mon	VFGK de DATZ QSY 79134 K and QSY 70843 K and QSY 71155 K	CW	(ASF)
7477	M42	30-12	0720	Tue	Russian diplo.	FSK 200/1000	(AB)
12072	M42	30-12	0813	Tue	NWLM de JONP K. QSA QTC 1 ZCZ K. into RTTY ends with ops chat CFM K. QRU? K. QRV K. R 321 0828 NIL SK	FSK 50/500 + CW	(AB)
11553	M42	30-12	0813	Tue	JONP de NWLM K. QSA QRV SLV R 567 0824 QTC1 K. ZCZ ZVP into RTTY ends with ops chat CFM K NIL SK	FSK 50/500 + CW	(AB)
7622	M42	30-12	1210	Tue	Russian diplo. Msg 147 on link 45136	FSK 200/1000	(AB)
5787	M42	30-12	1220	Tue	Russian diplo. Msg 147 on link 45136	FSK 200/1000	(AB)
17444	M42	30-12	1400	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
15872	M42	30-12	1410	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
13521	M42	30-12	1420	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
7844	M42	30-12	1700	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB)
5267	M42	30-12	1710	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB)
4617	M42	30-12	2200	Tue	Russian diplo/intel. Msg 002 on link 45057	FSK 200/1000	(AB)
5434	M42	30-12	2200	Tue	Russian diplo/intel. Msg 002 on link 45057	FSK 200/1000	(AB)
4014	M42	30-12	2200	Tue	Russian diplo/intel. Msg 002 on link 45057	FSK 200/1000	(AB)
11044	M42	31-12	0700	Wed	Russian diplo/intel. Msg 152 on link 45137	FSK 200/1000	(AB)
9063	M42	31-12	0710	Wed	Russian diplo/intel. Msg 152 on link 45137	FSK 200/1000	(AB)
7477	M42	31-12	0720	Wed	Russian diplo/intel. Msg 152 on link 45137	FSK 200/1000	(AB)
12072	M42	31-12	0815	Wed	NWLM de JONP K. NWLM de JONP QSA 4 K QRU? K. NWLM de JONP QRV K	CW	(ASF)
11553	M42	31-12	0815	Wed	JONP de NWLM QSA3 QSA? K. JONP de NWLM NW = 331 150 31 0800 2015 = 0820 K	CW	(ASF)
4215	M51	2-12	1914	Tue	5L msg after = 16 D 02 20:14:18 2014 =	CW	(PPA)
5453	M51	5-12	1737	Fri	Nr 01 D 0918:36:39 2014 = LACET YSOUW UFCYAUUKFC XAHXB à	CW	(ASF)
4440.5	M51	8-12	0637	Mon	FAV22	CW	(ASF)
3164	M51	9-12	1646	Tue	NR 18 D 09 17:46:37 2014 = HIWCB MPKWT CMMDM YFGME ...	CW	(ASF)
6853	M51	10-12	1538	Wed	NR 52 D 10 16:38 :43 2014 BT XDXWZ PMOSH NMUWP RXOVX ABZUP OBYTM ... //3664 kHz	CW	(ASF)
3664	M51	10-12	1538	Wed	NR 52 D 10 16:38 :43 2014 BT XDXWZ PMOSH NMUWP RXOVX ABZUP OBYTM ... //06853 kHz	CW	(ASF)
9257	M51	11-12	1320	Thu	NR 79 D 10 13:20 :43 2014 = 5LGs	CW	(ASF)
9257	M51	11-12	1320	Thu	NR 79 D 10 13:20 :43 2014 = 5LGs	CW	(ASF)
5868	M51	12-12	0750	Fri	NR 80 D 12 08:510:232014 = 5LGs //4901 kHz	CW	(AFS)
4901	M51	12-12	0750	Fri	NR 80 D 12 08:510:232014 = 5LGs //5869 kHz	CW	(AFS)
5453	M51	18-12	0708	Thu	NR 13 D 19 08:07:11 2014 BT WBMQU ASAXK IJDXH //5054.5 kHz	CW	(ASF)
5054.5	M51	18-12	0708	Thu	NR 13 D 19 08:07:11 2014 BT WBMQU ASAXK IJDXH //5453 kHz	CW	(ASF)
5869	M51	21-12	1302	Sun	NR 26 D 23 14:06:17 2014 = 5LGs //9213 kHz	CW	(ASF)
9213	M51	21-12	1302	Sun	NR 26 D 23 14:06:17 2014 = 5LGs //5869 kHz	CW	(ASF)
8618	M51	22-12	1441	Mon	NR 67 D 22 15:42:05 2014 = OXXBO FEFBL WIBHO RSJGJ	CW	(ASF)
4440.5	M51	24-12	1532	Wed	NR 79 D 24 16:32:19 2014 BT KULEE MDQHB ACYAX //8434 kHz	CW	(ASF)
7437	M51	24-12	1532	Wed	NR 79 D 24 16:32:19 2014 BT KULEE MDQHB ACYAX //4440.5 kHz	CW	(ASF)
3664	M51	26-12	0857	Fri	NR 32 D 26 09:57:54 2014 = NDOYS IWMZK UCAWP //9461 kHz	CW	(AFS)
9461	M51	26-12	0857	Fri	NR 32 D 26 09:57:54 2014 = NDOYS IWMZK UCAWP //3664 kHz	CW	(AFS)
8016	M51	27-12	1527	Sat	NR 49 D 24 16:28:01 2014 = OWSBD WBPVN HNHRB	CW	(AFS)
9213	M51	29-12	1331	Mon	NR 26 D 29 14:31â:03 2014 = DJQAJ TONGN YHMLN KBNCL //10358 kHz	CW	(ASF)
10358	M51	29-12	1331	Mon	NR 26 D 29 14:31â:03 2014 = DJQAJ TONGN YHMLN KBNCL //9213 kHz	CW	(ASF)

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6825	M51a	31-12	1237	Wed	VVV DE FAV22 FAV22 FAV22 QLH 3861/6825KHZ VITESSE ANNOUNCES LEGEREMENT SUPERIEURES into 5FGs	CW	(Eric)
9131	M89	2-12	1057	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	2-12	1057	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
5801	M89	2-12	1100	Tue	i.p. NIL K. HER SK E. NIK DE BGJB K	CW	(JPL)
10180	M89	2-12	1100	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	2-12	1100	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
3777	M89	2-12	1110	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	2-12	1110	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5588	M89	2-12	1111	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3330	M89	2-12	1111	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5500	M89	2-12	1114	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4860	M89	2-12	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	2-12	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
3734	M89	2-12	1140	Tue	i.p. RPT 68W K. RPT 86W K. RPT 86 W K	CW	(JPL)
3330	M89	2-12	1713	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	2-12	1715	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //N/H	CW	(JPL)
5657	M89	2-12	1716	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	2-12	1716	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5500	M89	2-12	1717	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4532	M89	2-12	1718	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	2-12	1718	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
6840	M89	2-12	1720	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
4860	M89	2-12	1720	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
4131	M89	2-12	1724	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
8072	M89	3-12	0025	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
9131	M89	3-12	0025	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8060	M89	3-12	0029	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	3-12	0029	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
5588	M89	3-12	0030	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	3-12	0037	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	3-12	0037	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
6575	M89	3-12	0158	Wed	CQ (x3) DE DP91 (x2) V (Cont'd) HR NIL SK GB	CW	(JPL)
10640	M89	3-12	0220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	3-12	0220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
3820	M89	3-12	1148	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	3-12	1148	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3777	M89	3-12	1150	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	3-12	1150	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5801	M89	3-12	1152	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	3-12	1152	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3330	M89	3-12	1209	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3330	M89	3-12	2026	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	3-12	2227	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	3-12	2227	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4532	M89	3-12	2228	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	3-12	2228	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3820	M89	3-12	2229	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	3-12	2229	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
5555	M89	3-12	2231	Wed	i.p. 7G NR 14/CCK CK 330 45 1204 0620 RMKS 80D098	CW	(JPL)
4131	M89	3-12	2256	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd) //N/H	CW	(JPL)
9131	M89	4-12	0416	Thu	V TYUI (x3) DE GKLO (x2) (Cont'd) Note: c/s are reversed!	CW	(JPL)
8060	M89	4-12	0418	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
10640	M89	4-12	0420	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	4-12	0420	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //1064	CW	(JPL)
3820	M89	4-12	1246	Thu	V TYUI (x3) DE GKLO (x2) (Cont'd) //5657 Note: c/s are reversed!	CW	(JPL)
5657	M89	4-12	1246	Thu	V TYUI (x3) DE GKLO (x2) (Cont'd) //3820 Note: c/s are reversed!	CW	(JPL)
5177	M89	4-12	1248	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3777	M89	4-12	1256	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3330	M89	4-12	1258	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	4-12	1817	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)

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3642	M89	4-12	1819	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
6840	M89	4-12	1820	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
3820	M89	4-12	1820	Thu	V TYUI (x3) DE GKLO (x2) (Cont'd)	CW	(JPL)
3330	M89	4-12	1849	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	4-12	1851	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	4-12	1851	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	4-12	1852	Thu	V TYUI (x3) DE GKLO (x2) (Cont'd) //5657 Note: c/s are reversed!	CW	(JPL)
3820	M89	4-12	1852	Thu	V TYUI (x3) DE GKLO (x2) (Cont'd) //5657	CW	(JPL)
8072	M89	5-12	0330	Fri	V TYUI (x3) DE GKLO (x2) (Cont'd) //9131 (c/s reversed)	CW	(JPL)
9131	M89	5-12	0330	Fri	V TYUI (x3) DE GKLO (x2) (Cont'd) //8072 (c/s reversed)	CW	(JPL)
5801	M89	5-12	0339	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	5-12	0339	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8067	M89	5-12	0341	Fri	i.p. NR 008/..... 199 54 1205 1100 RMKS CQ = .TD7 D54.T5.. 5... (Fading)	CW	(JPL)
3330	M89	5-12	1547	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	5-12	1548	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	5-12	1548	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	5-12	1549	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	5-12	1549	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	5-12	1551	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	5-12	1551	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
6575	M89	6-12	1003	Sat	CQ (x3) DE DP91 (x2) V (Cont'd) HR NIL SK GB	CW	(JPL)
6866	M89	6-12	1012	Sat	i.p. AR K	CW	(JPL)
3777	M89	6-12	1021	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
9131	M89	6-12	1025	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	6-12	1025	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
5588	M89	6-12	1027	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	6-12	1028	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	6-12	1028	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
10180	M89	6-12	1035	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	6-12	1035	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
3330	M89	6-12	1435	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	6-12	1437	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	6-12	1437	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
7602	M89	6-12	1437	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5657	M89	6-12	1439	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	6-12	1439	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5555	M89	6-12	1441	Sat	i.p. UTDA5ATD 7N4D 4NAU 57D4 45U4 46NT 46A5 (Cont'd) AR AR	CW	(JPL)
3642	M89	6-12	1455	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	6-12	1831	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	6-12	1832	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
7602	M89	6-12	1832	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4532	M89	6-12	1834	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	6-12	1834	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	6-12	1835	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	6-12	1835	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
3330	M89	6-12	2046	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	6-12	2048	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3820	M89	6-12	2049	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	6-12	2049	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3642	M89	6-12	2057	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
6575	M89	7-12	1000	Sun	CQ (x3) DE DP91 (x2) V (Cont'd) HR NIL SK GB	CW	(JPL)
8072	M89	7-12	1018	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
9131	M89	7-12	1018	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
5588	M89	7-12	1019	Sun	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
6840	M89	7-12	1020	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
10640	M89	7-12	1020	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
10180	M89	7-12	1025	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
7602	M89	8-12	1950	Mon	DKG6 de 3A7D	CW	(w.obj)
6575	M89	10-12	0156	Wed	CQ (x3) DE DP91 (x2) V (Cont'd) HR NIL SK GB	CW	(JPL)
8072	M89	10-12	0218	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
9131	M89	10-12	0218	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
6840	M89	10-12	0220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
10640	M89	10-12	0220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
3642	M89	10-12	0938	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
5801	M89	10-12	0938	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
7602	M89	10-12	0938	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
10180	M89	10-12	0938	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
9131	M89	10-12	0939	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	10-12	0939	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
6575	M89	10-12	0957	Wed	CQ (x3) DE DP91 (x2) V (Cont'd) HR NIL SK GB //8470	CW	(JPL)
8470	M89	10-12	0957	Wed	CQ (x3) DE DP91 (x2) V (Cont'd) //6575	CW	(JPL)
10640	M89	10-12	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	10-12	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
5588	M89	10-12	1021	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	10-12	1022	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3330	M89	10-12	1757	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3820	M89	10-12	1800	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	10-12	1800	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3777	M89	10-12	1808	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	10-12	1808	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	10-12	1850	Wed	i.p. 12/11/0320/278/A/2./74 AR UGT COMM = 903./692/6232/12/11/0320/278/A/28/74 AR	CW	(JPL)
3642	M89	10-12	2214	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3820	M89	10-12	2216	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6575	M89	11-12	1001	Thu	CQ (x3) DE DP91 (x2) V (Cont'd) HR NIL SK GB //8470	CW	(JPL)
8470	M89	11-12	1007	Thu	CQ (x3) DE DP91 (x2) V (Cont'd) //6575	CW	(JPL)
5801	M89	11-12	1015	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	11-12	1015	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
9131	M89	11-12	1017	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	11-12	1017	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
6840	M89	11-12	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
3330	M89	11-12	1441	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	11-12	1443	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	11-12	1443	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3820	M89	11-12	1444	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	11-12	1444	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	12-12	1315	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	12-12	1316	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	12-12	1316	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	12-12	1318	Fri	i.p. 28/6202 = COMM/2200/LZQTR ..8922824389282462A.8	CW	(JPL)
5657	M89	12-12	1318	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4860	M89	12-12	1320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	12-12	1320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
3642	M89	12-12	1328	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3820	M89	12-12	1331	Fri	i.p. NR 72 2130 RMKS 3892 TO 3326/3842 = COMM/215/LZ229A2/3897/3326 AGN	CW	(JPL)
3642	M89	12-12	1338	Fri	i.p. AB/2985/2263 AR EEE K EEEE QSL ? HR WK NR 31	CW	(JPL)
4860	M89	12-12	1720	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	12-12	1720	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
3330	M89	12-12	1725	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5657	M89	12-12	1728	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	12-12	1728	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
3777	M89	12-12	1729	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	12-12	1729	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
8072	M89	13-12	0118	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6793	M89	13-12	0119	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	13-12	0119	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6840	M89	13-12	0120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
10640	M89	13-12	0120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
3642	M89	13-12	0126	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	13-12	0126	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	13-12	0129	Sat	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
6575	M89	13-12	0157	Sat	CQ (x3) DE DP91 (x2) V (Cont'd) HR NIL HR NIL SK GB //8470	CW	(JPL)
8470	M89	13-12	0200	Sat	CQ (x3) DE DP91 (x2) V (Cont'd) HR NIL SK GB //6575	CW	(JPL)
7602	M89	14-12	2224	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	14-12	2224	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4131	M89	14-12	2227	Sun	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5657	M89	14-12	2228	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
4532	M89	14-12	2231	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	14-12	2231	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3820	M89	14-12	2241	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6575	M89	15-12	1000	Mon	CQ (x3) DE DP91 (x2) V (Cont'd) HR NIL SK GB //8470	CW	(JPL)
8470	M89	15-12	1001	Mon	CQ (x3) DE DP91 (x2) V (Cont'd) //6575	CW	(JPL)
8072	M89	15-12	1018	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
9131	M89	15-12	1018	Mon	i.p. 5 AR = ?? 394 FM 564 III .512 .U 5.	CW	(JPL)
6840	M89	15-12	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
10640	M89	15-12	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
10180	M89	15-12	1026	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5588	M89	15-12	1029	Mon	i.p. TDT7 3AN. AT3U A767 N5TN 7UT4 (Cont'd)	CW	(JPL)
4532	M89	15-12	1034	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3777	M89	15-12	1035	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
4532	M89	15-12	1039	Mon	RIS9 i.p. NR 02W K. NR RP RPT 22W (Both stations on this freq)	CW	(JPL)
3330	M89	15-12	1845	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5500	M89	15-12	1848	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3642	M89	15-12	1932	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	15-12	1932	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	15-12	1935	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
4532	M89	15-12	1936	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3820	M89	15-12	1937	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	15-12	1937	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3777	M89	15-12	1941	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3330	M89	15-12	1946	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5801	M89	16-12	1013	Tue	75N5 453U AD46 N5 ? N667 DTU4 7A7U (Cont'd)	CW	(JPL)
10180	M89	16-12	1018	Tue	MSG GA NR 022/CCK CK 99 19 1216 18 16 RMKS 29.. FM 3EEEE //5801	CW	(JPL)
3820	M89	16-12	1026	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
8072	M89	16-12	1026	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
5657	M89	16-12	1026	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
9131	M89	16-12	1026	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
5588	M89	16-12	1030	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5500	M89	16-12	1032	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4532	M89	16-12	1033	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	16-12	1033	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3330	M89	16-12	1754	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	16-12	1756	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	16-12	1756	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5555	M89	16-12	1758	Tue	i.p. R GA K R = 7AD5 3DDA TN5D ND6U U46T 643A D? 373T =	CW	(JPL)
6840	M89	16-12	1820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
4860	M89	16-12	1820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
3642	M89	16-12	1823	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
9131	M89	17-12	1010	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	17-12	1010	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
5588	M89	17-12	1012	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3330	M89	17-12	1717	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	17-12	1718	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	17-12	1718	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
6840	M89	17-12	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
4860	M89	17-12	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
5657	M89	17-12	1723	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	17-12	1723	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
3642	M89	17-12	1729	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	17-12	2336	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
6793	M89	17-12	2338	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	17-12	2338	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
9131	M89	17-12	2342	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	17-12	2342	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
4131	M89	17-12	2346	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3642	M89	17-12	2347	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	17-12	2347	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3330	M89	18-12	2025	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	18-12	2027	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	18-12	2029	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	18-12	2029	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	18-12	2031	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	18-12	2031	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	19-12	1733	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	19-12	1735	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	19-12	1737	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	19-12	1737	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	19-12	1739	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	19-12	1739	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
6840	M89	19-12	2020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
6840	M89	19-12	2025	Fri	VVV Q2M de NYZ QSAá? K	CW	(ASF)
7602	M89	19-12	2025	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	19-12	2025	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4131	M89	19-12	2026	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
8072	M89	20-12	0033	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
9131	M89	20-12	0033	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
3642	M89	20-12	0035	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	20-12	0035	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	20-12	0037	Sat	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
9131	M89	20-12	1013	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
9131	M89	20-12	1017	Sat	i.p. RMKS 38.EEEEE RMKS 3892 TO 3412/3842 =	CW	(JPL)
8072	M89	20-12	1017	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
10640	M89	20-12	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	20-12	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
10180	M89	20-12	1025	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5588	M89	20-12	1030	Sat	i.p. NR 080 CK .. 44 1220 18.. =	CW	(JPL)
4532	M89	20-12	1046	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3777	M89	20-12	1055	Sat	i.p. 6516 6362 6338 6942 MSG NR 1.050 CK 91 40 1220 185. RMKS (see N&O 207)	CW	(JPL)
3330	M89	20-12	1406	Sat	i.p. 7//440. AR = 4198 1/523 1..8.0/23.. 7//4501 AR	CW	(JPL)
3777	M89	20-12	1412	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	20-12	1412	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	20-12	1413	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	20-12	1413	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
6666	M89	20-12	1416	Sat	i.p. D731132 44WR NMKS NMKS (RMKS) NMKS NMKS	CW	(JPL)
4860	M89	20-12	1420	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	20-12	1420	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
3642	M89	20-12	1426	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3774	M89	20-12	1428	Sat	i.p. HR WK NR 0036 K R HI NIL SK (see N&O 207)	CW	(JPL)
3330	M89	20-12	1500	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3530	M89	20-12	1502	Sat	05/CCK EEEEE CK 99 61 1220 2230 RMKS 2EEEEEE 80. TO EEEEE 4205 K K	CW	(JPL)
3605	M89	20-12	1517	Sat	i.p. 37AD AR K	CW	(JPL)
3779	M89	20-12	1523	Sat	(i.p. 64TU D4D5 T3T. 76U3 (Cont'd) III III =	CW	(JPL)
3878	M89	20-12	1530	Sat	i.p. RPT 2P03 WK K R RPT 2P0 WK K	CW	(JPL)
3330	M89	20-12	2118	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	20-12	2133	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
6575	M89	24-12	0205	Wed	CQ (x3) DE DP91 (x2) V (Cont'd) HR NIL SK GB	CW	(JPL)
8072	M89	24-12	0230	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
9131	M89	24-12	0230	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
3330	M89	24-12	1541	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	24-12	1544	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	24-12	1544	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	24-12	1547	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
3820	M89	24-12	1547	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
3642	M89	24-12	1605	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3640	M89	24-12	1606	Wed	i.p. R RPT 76W = 4.6 456. K. R RPT 8.W = ... 65D K	CW	(JPL)
6840	M89	24-12	1620	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
4860	M89	24-12	1620	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
3330	M89	24-12	1907	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	24-12	1908	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	24-12	1909	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	24-12	1909	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	24-12	1910	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	24-12	1910	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	25-12	1805	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	25-12	1808	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	25-12	1808	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
7602	M89	25-12	1810	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5657	M89	25-12	1812	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	25-12	1812	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
6840	M89	25-12	1820	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
4860	M89	25-12	1820	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
4131	M89	25-12	1825	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3642	M89	25-12	1844	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	27-12	2204	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3642	M89	27-12	2205	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3820	M89	27-12	2208	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
4131	M89	27-12	2212	Sat	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
7602	M89	27-12	2214	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	29-12	1717	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	29-12	1718	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	29-12	1719	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	29-12	1719	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
4860	M89	29-12	1720	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
5657	M89	29-12	1720	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
6840	M89	29-12	1720	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
3820	M89	29-12	1720	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5555	M89	29-12	1726	Mon	i.p. HR 7G GA NR = / 1R X 61R. = 74.5 7553 D64A 6.N.	CW	(JPL)
3642	M89	30-12	0016	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
8072	M89	30-12	0148	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //N/H	CW	(JPL)
8110	M89	30-12	0149	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3642	M89	30-12	0156	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	30-12	0156	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
8470	M89	30-12	0200	Tue	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
9131	M89	30-12	0408	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	30-12	0408	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
8110	M89	30-12	0410	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
6840	M89	30-12	0420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
10640	M89	30-12	0420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
10180	M89	30-12	0425	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
7602	M89	30-12	1600	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	30-12	1600	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3820	M89	30-12	1606	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
4532	M89	30-12	1609	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	30-12	1609	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3330	M89	30-12	1610	Tue	i.p. TA73 U5T4 7D54 56D4 (Cont'd) III = 4UD4 MSG NR 121 CK 301 34 1231 0000 =	CW	(JPL)
5657	M89	30-12	1616	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	30-12	1616	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4860	M89	30-12	1620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	30-12	1620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
3330	M89	30-12	2245	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	30-12	2246	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4532	M89	30-12	2247	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
3777	M89	30-12	2247	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3820	M89	30-12	2248	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	30-12	2248	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
7602	M89	30-12	2252	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	30-12	2252	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
9131	M89	31-12	0111	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	31-12	0111	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //9131	CW	(JPL)
10640	M89	31-12	0120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	31-12	0120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
3642	M89	31-12	0125	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	31-12	0125	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
8470	M89	31-12	0205	Wed	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
3699	MC03	5-12	1800	Fri	Chinese Air Defense: 653 UA6U73 57765A4 AT3 5N	CW	(JPL-Sib)
3700	MC03	20-12	2128	Sat	Chinese Air Defense tracking: 653 UA67DD 5DD6N7N AT6 UD. 653 UA67NA 5ND75D6 AAU UD	CW	(JPL-Sib)
8000	MX	2-12	1648	Tue	Beacon "C" Moscow. Keying intermittently irregular.	CW	(MPJ)
6917.5	MX	3-12	0220	Wed	Beacon "P" Kaliningrad (should be "L")	CW	(JPL-Sib)
6917.5	MX	3-12	1212	Wed	Beacon "P" Kaliningrad (should be "L")	CW	(JPL-Sib)
6917.5	MX	4-12	2153	Thu	Beacon "P" Kaliningrad (should be "L")	CW	(AB)
6917.5	MX	5-12	1421	Fri	Beacon "P" Kaliningrad (should be "L")	CW	(AB)
6917.5	MX	5-12	1632	Fri	Beacon "P" Kaliningrad	CW	(TJ)
6917.5	MX	5-12	1753	Fri	Beacon "P" Kaliningrad	CW	(JPL-Sib)
20047.7	MX	9-12	1340	Tue	Beacon "D" Sevastopol	CW	(ML4)
20047.9	MX	9-12	1343	Tue	Beacon "S" Severomorsk	CW	(ML4)
20048	MX	9-12	1345	Tue	Beacon "C" Moscow	CW	(ML4)
16332	MX	9-12	1346	Tue	Beacon "C" Moscow	CW	(ML4)
16331.7	MX	9-12	1347	Tue	Beacon "D" Sevastopol	CW	(ML4)
16331.9	MX	9-12	1348	Tue	Beacon "S" Severomorsk	CW	(ML4)
6917.5	MX	9-12	1351	Tue	Beacon "L" St Petersburg	CW	(ML4)
8497.8	MX	9-12	1351	Tue	Beacon "L" St Petersburg	CW	(ML4)
6917.5	MX	10-12	0212	Wed	Beacon "P" Kaliningrad	CW	(JPL-Sib)
6917.5	MX	10-12	1017	Wed	Beacon "P" Kaliningrad	CW	(JPL-Sib)
8494.9	MX	10-12	1127	Wed	Beacon "S" Sevoromorsk	CW	(Mar)
20047.9	MX	10-12	1127	Wed	Beacon "D" Sevastopol	CW	(Mar)
20047.9	MX	10-12	1131	Wed	Beacon "S" Sevoromorsk	CW	(Mar)
20048	MX	10-12	1131	Wed	Beacon "C" Moscow	CW	(Mar)
20048	MX	14-12	0934	Sun	Beacon "C" Moscow	CW	(ASF)
8494.7	MX	16-12	2044	Tue	Beacon "D" Sevastopol	CW	(AB)
5154.9	MX	16-12	2045	Tue	Beacon "S" Sevoromorsk	CW	(AB)
5154.7	MX	16-12	2045	Tue	Beacon "D" Sevastopol	CW	(AB)
4557.7	MX	16-12	2104	Tue	Beacon "D" Sevastopol	CW	(AB)
6917.5	MX	16-12	2105	Tue	Beacon "P" Kaliningrad	CW	(AB)
3594.7	MX	16-12	2109	Tue	Beacon "D" Sevastopol	CW	(AB)
3594.2	MX	20-12	1516	Sat	Beacon "F" Vladivostok	CW	(JPL-Sib)
3594.2	MX	20-12	1737	Sat	Beacon "F" Vladivostok	CW	(JPL-Sib)
13528	MX	23-12	1428	Tue	Beacon "C" Moscow	CW	(MPJ)
6917.5	MX	28-12	1604	Sun	Beacon "P" Kaliningrad	CW	(AB)
10872.2	MX	28-12	1608	Sun	Beacon "F" Vladivostok	CW	(AB)
10871.7	MX	28-12	1608	Sun	Beacon "D" Sevastopol	CW	(AB)
10872	MX	28-12	1608	Sun	Beacon "C" Moscow	CW	(AB)
10872.4	MX	28-12	1608	Sun	Beacon "M" Magadan	CW	(AB)
10871.9	MX	28-12	1608	Sun	Beacon "S" Sevoromorsk	CW	(AB)
8497.8	MX	28-12	1610	Sun	Beacon "L" St Petersburg	CW	(AB)
7038.7	MX	28-12	1611	Sun	Beacon "D" Sevastopol	CW	(AB)
7038.9	MX	28-12	1611	Sun	Beacon "S" Severomorsk	CW	(AB)
5153.8	MX	28-12	1612	Sun	Beacon "D" Sevastopol	CW	(AB)
5153.9	MX	28-12	1612	Sun	Beacon "S" Severomorsk	CW	(AB)
16388	POL	4-12	0730	Thu	Polish Intel.	FSK 100/625	(AB)
16388	POL	4-12	0735	Thu	Polish Intel.	FSK 100/625	(AB)
9370	POL	10-12	0850	Wed	Polish intel	FSK 100/625	(AB)
10359	POL	12-12	0655	Fri	Polish Intel.	FSK 100/740	(AB)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
4841.6	POL	12-12	1943	Fri	Polish intel	FSK 100/750	(PPA)
9370	POL	15-12	0845	Mon	Polish intel.	FSK 100/740	(AB)
9370	POL	15-12	0850	Mon	Polish intel.	FSK 100/740	(AB)
12630	POL	15-12	1000	Mon	Polish intel.	FSK 100/740	(AB)
12630	POL	15-12	1005	Mon	Polish intel.	FSK 100/740	(AB)
15915	POL	15-12	1525	Mon	Polish intel.	FSK 100/750	(AB)
15915	POL	15-12	1530	Mon	Polish intel.	FSK 100/750	(AB)
5831	POL	17-12	0300	Wed	Polish intel, null message	FSK 100/740	(Danix)
5831	POL	17-12	0305	Wed	Polish intel, null message	FSK 100/740	(Danix)
9370	POL	17-12	0845	Wed	Polish intel.	FSK 100/470	(AB)
9370	POL	17-12	0850	Wed	Polish intel.	FSK 100/470	(AB)
5815	POL	17-12	1005	Wed	Polish intel, null message	FSK 100/740	(Danix)
5815	POL	17-12	1010	Wed	Polish intel, null message	FSK 100/740	(Danix)
8102	POL	17-12	1030	Wed	Polish intel, null message	FSK 100/740	(Danix)
8102	POL	17-12	1035	Wed	Polish intel, null message	FSK 100/740	(Danix)
4840	POL	17-12	1430	Wed	Polish intel.	FSK 100/470	(AB/Danix)
4840	POL	17-12	1435	Wed	Polish intel.	FSK 100/470	(AB/Danix)
7772	POL	18-12	0630	Thu	Polish Intel.	FSK 100/740	(AB)
16388	POL	18-12	0730	Thu	Polish Intel.	FSK 100/740	(AB)
16388	POL	18-12	0735	Thu	Polish Intel.	FSK 100/740	(AB)
12630	POL	18-12	1000	Thu	Polish Intel. 0765 88888 88888 55900 78873 13712 16093 ... 62111 82385 50050 88888 88888 00036 00036	FSK 100/740	(AB/faux)
12630	POL	18-12	1005	Thu	Polish Intel. 0765 88888 88888 55900 78873 13712 16093 ... 62111 82385 50050 88888 88888 00036 00036	FSK 100/740	(AB/faux)
7499	POL	19-12	0900	Fri	Polish intel.	FSK 100/500	(AB)
7499	POL	19-12	0905	Fri	Polish intel.	FSK 100/500	(AB)
9576	POL	19-12	1005	Fri	Polish intel.	FSK 100/740	(AB)
9576	POL	19-12	1010	Fri	Polish intel.	FSK 100/740	(AB)
13575	POL	19-12	1405	Fri	Polish intel.	FSK 100/740	(AB/Danix)
13575	POL	19-12	1410	Fri	Polish intel.	FSK 100/740	(AB/Danix)
5815	POL	20-12	1005	Sat	Polish Intel.	FSK 100/740	(AB)
5815	POL	20-12	1010	Sat	Polish Intel.	FSK 100/740	(AB)
15915	POL	21-12	1525	Sun	Polish intel. Null msg	FSK 200/740	(AB)
15915	POL	21-12	1530	Sun	Polish intel. Null msg	FSK 200/740	(AB)
6836	POL	22-12	0800	Mon	Polish intel. Null msg	FSK 100/740	(AB)
6836	POL	22-12	0805	Mon	Polish intel. Null msg	FSK 100/740	(AB)
9370	POL	22-12	0845	Mon	Polish intel. Null msg	FSK 100/740	(AB)
9370	POL	22-12	0850	Mon	Polish intel. Null msg	FSK 100/740	(AB)
9576	POL	23-12	1005	Tue	Polish intel. Msg	FSK 100/740	(AB)
9576	POL	23-12	1010	Tue	Polish intel. Msg	FSK 100/740	(AB)
8102	POL	23-12	1030	Tue	Polish intel. Msg	FSK 100/740	(AB)
8102	POL	23-12	1030	Tue	Polish intel. Msg	FSK 100/740	(AB)
5463	POL	23-12	1520	Tue	Polish intel. Null msg	FSK 100/740	(AB)
5463	POL	23-12	1525	Tue	Polish intel. Null msg	FSK 100/740	(AB)
9370	POL	24-12	0850	Wed	Polish intel. Null msg	FSK 100/740	(AB)
8102	POL	24-12	1030	Wed	Polish intel. Null message with ID 0325	FSK 100/740	(AB/Danix)
8102	POL	24-12	1035	Wed	Polish intel. Null message with ID 0325	FSK 100/740	(AB/Danix)
15915	POL	24-12	1140	Wed	Polish intel. Null message with ID 0217	FSK 100/740	(Danix)
15915	POL	24-12	1145	Wed	Polish intel. Null message with ID 0217	FSK 100/740	(Danix)
4840	POL	24-12	1430	Wed	Polish intel. Null message with ID 0289	FSK 100/740	(Danix)
4840	POL	24-12	1435	Wed	Polish intel. Null message with ID 0289	FSK 100/740	(Danix)
4840	POL	24-12	1940	Wed	Polish intel. Msg with ID 0272: 88888 88888 34099 238__ 02342 ... 02244 19699 73452 88888 00038 00038	FSK 100/740	(Danix)
4840	POL	24-12	1945	Wed	Polish intel. Msg with ID 0272: 88888 88888 34099 238__ 02342 ... 02244 19699 73452 88888 00038 00038	FSK 100/740	(Danix)
6836	POL	29-12	0800	Mon	Polish intel. Null msg	FSK 100/740	(AB)
6836	POL	29-12	0805	Mon	Polish intel. Null msg	FSK 100/740	(AB)
9370	POL	29-12	0845	Mon	Polish intel. Message	FSK 100/740	(AB)
9370	POL	29-12	0850	Mon	Polish intel. Message	FSK 100/740	(AB)
12630	POL	29-12	1000	Mon	Polish intel. Null msg	FSK 100/740	(AB)
12630	POL	29-12	1005	Mon	Polish intel. Null msg	FSK 100/740	(AB)
16388	POL	30-12	0730	Tue	Polish intel. Null msg	FSK 100/740	(AB)

Frequency	Code	Date	UTC	Day	Remarks	Mode	Ctrb
16388	POL	30-12	0735	Tue	Polish intel. Null msg	FSK 100/740	(AB)
9370	POL	31-12	0845	Wed	Polish intel. Msg	FSK 100/740	(AB)
9370	POL	31-12	0850	Wed	Polish intel. Msg	FSK 100/740	(AB)
5815	POL	31-12	1005	Wed	Polish intel. Null msg	FSK 100/740	(AB)
5815	POL	31-12	1010	Wed	Polish intel. Null msg	FSK 100/740	(AB)
6943	RMv	17-12	1703	Wed	Garpun69 Ya Feya63 Priyom	USB	(AB)
8850	RMv	17-12	1804	Wed	Valeta Ya Melodiya priyom. Melodiya Ya Valeta proshu na svyaz (Valeta here Melodiya over. Melodiya here Valeta, please communicate)	USB	(AB)
3838	S06	1-12	1905	Mon	349 0	USB	(HFD)
6943	S06	6-12	1600	Sat	194 0	USB	(HFD)
3842	S06	6-12	1935	Sat	396 0	USB	(HFD)
3838	S06	8-12	1905	Mon	349 0	USB	(HFD)
3838	S06	11-12	1905	Thu	349 0	USB	(HFD)
3838	S06	15-12	1905	Mon	349 0	USB	(HFD)
5786	S06	20-12	1605	Sat	194 0	USB	(HFD)
3832	S06	20-12	1935	Sat	396 0	USB	(HFD)
15721	S06	24-12	0400	Wed	Mixes id 480 with 759: 480 480 759 759 480 480	USB	(Avare)
11532	S06s	2-12	0740	Tue	427 896 5 46062 53672 11834 81022 36903 896 5 00000	AM	(AB)
11942	S06s	2-12	0800	Tue	352 478 6 88620 58069 61732 74537 57440 10545 478 6 00000	USB	(AB)
13195	S06s	2-12	0810	Tue	352 478 6 88620 58069 61732 74537 57440 10545 478 6 00000	USB	(AB)
6778	S06s	3-12	0820	Wed	471 986 5 44520	USB	(HFD)
7675	S06s	3-12	0830	Wed	471	USB	(HFD)
12952	S06s	4-12	0900	Thu	167 849 5 31542 38747 33534 36213 37680 849 5 00000	AM	(AB)
13565	S06s	4-12	0910	Thu	167 849 5 31542 38747 33534 36213 37680 849 5 00000	AM	(AB)
8812	S06s	4-12	0930	Thu	314 257 6 40138 33307 37028 33193 14309 14320 257 6 00000	USB	(AB)
9540	S06s	4-12	0940	Thu	314 257 6 40138 33307 37028 33193 14309 14320 257 6 00000	USB	(AB)
12445	S06s	4-12	0950	Thu	635 294 7 84674 89978 80361 49906 35794 82605 46305 294 7 00000	USB	(AB)
13130	S06s	4-12	1000	Thu	635 294 7 84674 89978 80361 49906 35794 82605 46305 294 7 00000	USB	(AB)
10920	S06s	4-12	1210	Thu	425 873 6 42169 35797 33873 39235 93615 84408 873 6 00000	USB	(MCO)
5810	S06s	5-12	0800	Fri	278 501 6 46062 68672 31312 52343 92883 69901 501 6 00000	USB	(AB)
6770	S06s	5-12	0810	Fri	278 501 6 46062 68672 31312 52343 92883 69901 501 6 00000	USB	(AB)
16145	S06s	9-12	0600	Tue	438 509 6 82946	USB	(HFD)
14240	S06s	9-12	0610	Tue	438	USB	(HFD)
7675	S06s	10-12	0930	Wed	471 986 5 44520 46992 31373 39246 31773 986 5 00000	AM	(AB)
10920	S06s	11-12	1210	Thu	425 873 6 42169 35797 33873 39235 93615 84408 873 6 00000	USB	(AB)
5810	S06s	12-12	0800	Fri	278 501 6 46062 68672 31312 52343 92883 69901 501 6 00000	USB	(AB)
6770	S06s	12-12	0810	Fri	278 501 6 46062 68672 31312 52343 92883 69901 501 6 00000	USB	(AB)
8420	S06s	15-12	1300	Mon	831 940 5 96111 10544 98003 68909 45279 940 5 00000	USB	(AB)
10635	S06s	15-12	1310	Mon	831 940 5 96111 10544 98003 68909 45279 940 5 00000	USB	(AB)
6778	S06s	17-12	0820	Wed	471 253 6 46062 68672 97478 39685 30485 96632 253 6 00000	USB	(AB)
7675	S06s	17-12	0830	Wed	471 253 6 46062 68672 97478 39685 30485 96632 253 6 00000	USB	(AB)
7335	S06s	17-12	0830	Wed	745 803 6 52401 63919 92699 14600 74248 48754 803 6 00000	AM	(AB)
11830	S06s	17-12	0840	Wed	745 803 6 52401 63919 92699 14600 74248 48754 803 6 00000	AM	(AB)
12365	S06s	17-12	1000	Wed	729 510 6 42169 35797 33873 39235 93615 84408 510 6 00000	AM	(AB)
14280	S06s	17-12	1010	Wed	729 510 6 42169 35797 33873 39235 93615 84408 510 6 00000	AM	(AB)
12952	S06s	18-12	0900	Thu	167 983 5 31694 81576 46319 81374 75416 983 5 00000	AM	(AB)
13565	S06s	18-12	0910	Thu	167 983 5 31694 81576 46319 81374 75416 983 5 00000	AM	(AB)
8812	S06s	18-12	0930	Thu	314 985 6 44745 16330 88418 30480 88650 34434 985 6 00000	USB	(AB)
9540	S06s	18-12	0940	Thu	314 985 6 44745 16330 88418 30480 88650 34434 985 6 00000	USB	(AB)
5810	S06s	19-12	0800	Fri	278 410 5 39408 33487 83456 37393 93068 410 5 00000	AM	(AB)
6770	S06s	19-12	0810	Fri	278 410 5 39408 33487 83456 37393 93068 410 5 00000	AM	(AB)
11780	S06s	19-12	0930	Fri	516 204 7 49002 32571 33313 40597 91430 40489 15690 204 7 00000	AM	(AB)
12570	S06s	19-12	0940	Fri	516 204 7 49002 32571 33313 40597 91430 40489 15690 204 7 00000	AM	(AB)
14675	S06s	22-12	0900	Mon	872 904 5 10597 23521 47660 92883 69901 904 5 00000	USB	(AB)
12830	S06s	22-12	0910	Mon	872 904 5 10597 23521 47660 92883 69901 904 5 00000	USB	(AB)
8420	S06s	22-12	1300	Mon	831 940 5 96111 10544 98003 68909 45279 940 5 00000	USB	(AB)
10635	S06s	22-12	1310	Mon	831 940 5 96111 10544 98003 68909 45279 940 5 00000	USB	(AB)
6845	S06s	23-12	1500	Tue	537 820 6 31704 91596 47308 92107 40398 85417 820 6 00000	USB	(AB)
9170	S06s	23-12	1510	Tue	537 820 6 31704 91596 47308 92107 40398 85417 820 6 00000	USB	(AB)
6778	S06s	24-12	0820	Wed	471 253 6 46062 68672 97478 39685 30485 96632 253 6 00000	USB	(AB)
7335	S06s	24-12	0830	Wed	745 803 6 52401 63919 92699 14600 74248 48754 803 6 00000	USB	(AB)

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7675	S06s	24-12	0830	Wed	471 253 6 46062 68672 97478 39685 30485 96632 253 6 00000	USB	(AB)
11830	S06s	24-12	0840	Wed	745 803 6 52401 63919 92699 14600 74248 48754 803 6 00000	USB	(AB)
12365	S06s	24-12	1000	Wed	729 510 6 42169 35797 33873 39235 93615 84408 510 6 00000	AM	(AB)
14280	S06s	24-12	1010	Wed	729 510 6 42169 35797 33873 39235 93615 84408 510 6 00000	AM	(AB)
6770	S06s	26-12	0810	Fri	278 410 5 39408 33487 83456 37393 93068 410 5 00000	USB	(AB)
11780	S06s	26-12	0930	Fri	516 204 7 49002 32571 33313 40597 91430 40489 15690 204 7 00000	AM	(AB)
12570	S06s	26-12	0940	Fri	516 204 7 49002 32571 33313 40597 91430 40489 15690 204 7 00000	AM	(AB)
13470	S06s	28-12	0630	Sun	524 901 6 88620 58069 61732 74537 57440 10597 901 6 00000	AM	(AB)
16515	S06s	28-12	0640	Sun	524 901 6 88620 58069 61732 74537 57440 10597 901 6 00000	AM	(AB)
8057	S06s	29-12	0830	Mon	371 371 371 00000	USB	(AB)
8530	S06s	29-12	0840	Mon	371 371 371 00000	USB	(AB)
14675	S06s	29-12	0900	Mon	872 872 872 0000	USB	(AB)
12830	S06s	29-12	0910	Mon	872 872 872 0000	USB	(AB)
10635	S06s	29-12	1310	Mon	831 831 831 00000	USB	(AB)
11532	S06s	30-12	0739	Tue	427 427 427 00000 (started 1 minute early)	AM	(AB)
6778	S06s	31-12	0820	Wed	471 471 471 00000	USB	(AB)
7675	S06s	31-12	0830	Wed	471 471 471 00000	USB	(AB)
7335	S06s	31-12	0830	Wed	745 745 745 00000 (starts 1 minute late)	USB	(AB)
11830	S06s	31-12	0840	Wed	745 745 745 00000	USB	(AB)
12365	S06s	31-12	1000	Wed	729 729 729 00000	AM	(AB)
14280	S06s	31-12	1010	Wed	729 729 729 00000	AM	(AB)
19099	S11a	1-12	0715	Mon	382/00	USB	(HFD)
7504	S11a	2-12	0915	Tue	484/00	USB	(AB)
9610	S11a	2-12	1020	Tue	426/00	USB	(AB)
5815	S11a	12-12	1957	Fri	370/00	USB	(PPA)
4828	S11a	16-12	0455	Tue	320/32 67297	USB	(HFD)
7504	S11a	16-12	0915	Tue	487/34 ...	USB	(AB)
12530	S11a	18-12	1015	Thu	479/36 Vnimanie 55900 78873 13712 ... 62111 82385 50050 Vnimanie, rpt msg, konec	USB	(AB)
7504	S11a	19-12	0915	Fri	487/36 Vnimanie 18000 20886 59271 ... 11105 09683 76281 Vnimanie, rpt msg, konec	USB	(AB)
7504	S11a	23-12	0915	Tue	484/00	USB	(AB)
9610	S11a	23-12	1020	Tue	420/33 Vnimanie 18987 76191 94010 ... 87532 84635 73560 Vnimanie, rpt msg, konec	USB	(AB)
6433	S11a	24-12	1020	Wed	221/00	USB	(AB)
7504	S11a	26-12	0910	Fri	484/00	USB	(AB)
19099	S11a	29-12	0715	Mon	382/00	USB	(AB)
12530	S11a	29-12	1015	Mon	475/00	USB	(AB)
4625	S28	4-12	0932	Thu	MDZhB 03 832 BYeNZOKSI 3329 8216	USB	(DJPr)
4625	S28	4-12	1041	Thu	MDZhB 48 845 BARNICHAN'Ye 2884 4556	USB	(Arg)
4625	S28	4-12	1312	Thu	MDZhB 52 972 SIZAL' 0563 2887	USB	(DJPr)
4625	S28	4-12	1529	Thu	MDZhB 83 776 CYuN'HA 4596 6146	USB	(DJPr)
4625	S28	4-12	1651	Thu	MDZhB 53 897 IZACHYeN 5375 1458	USB	(Arg)
4625	S28	7-12	0944	Sun	MDZhB 32 093 KVADRATOR 4025 5665	USB	(DJPr)
4625	S28	7-12	1416	Sun	MDZhB 38 202 LALDYKA 7063 5278	USB	(Arg)
4625	S28	10-12	1426	Wed	MDZhB 16 107 LIPAVLON 2423 7676	USB	(DJPr)
4625	S28	10-12	1549	Wed	MDZhB 85 116 BIL'BOKYe 1152 4757	USB	(Arg)
4625	S28	10-12	1627	Wed	MDZhB 92 038 MIRIKA 13 67 63 68 SIMVOLIKA 56 89 33 44 RAUNG 02 70 09 75 ODKORA 34 24 43 13 Priyom	USB	(Avare/Arg)
4625	S28	10-12	1647	Wed	MDZhB 54 945 NAGVOZDKA 6500 1733	USB	(DJPr)
4625	S28	10-12	1729	Wed	MDZhB 85 766 DIAKARB 0807 1233	USB	(Arg)
4625	S28	11-12	1532	Thu	MDZhB 27 114 ADOPTACIYa 4455 2808	USB	(DJPr)
4625	S28	18-12	1124	Thu	MDZhB 43 886 GAVYuLA 0874 9841 OBRYeDKA 2722 5468	USB	(DJPr)
4625	S28	19-12	0303	Fri	MDZhB 69 975 MARONI 6070 9845 IDYeOSOMA 9118 5423	USB	(DJPr)
4625	S28	24-12	0855	Wed	MDZhB 87 829 BIPLANOVYJ 4149 9228	USB	(Arg)
4625	S28	25-12	0935	Thu	MDZhB 50 263 CYeNTIM 9613 4728	USB	(Arg)
4625	S28	25-12	1034	Thu	MDZhB 72 988 SKRUTYeN' 2048 9289	USB	(Arg)
4625	S28	26-12	1838	Fri	MDZhB 01 756 HAJLARD 5671 9149	USB	(Arg)
4625	S28	29-12	0955	Mon	MDZhB 84 362 KARBA?TOKS 4519 8920	USB	(DJPr)
4625	S28	29-12	1109	Mon	MDZhB 81 062 VYeRShYeNNYJ 2268 2567 (also in CW on 5077 kHz)	USB	(DJPr)
4625	S28	29-12	1418	Mon	MDZhB 84 576 IZhYeMUHA 0398 0592	USB	(DJPr)
4625	S28	29-12	1435	Mon	MDZhB 98 785 KIRASIR 5680 2161	USB	(DJPr)

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3756	S30	2-12	1851	Tue	SB7Z 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV 12CI 79AJ	USB	(DJPr)
5448	S30	4-12	0932	Thu	8S1Shch 63 645 ATTYa 9263 6749	USB	(DJPr)
5448	S30	4-12	1312	Thu	8S1Shch 22 176 METAMIZIL 2196 6109	USB	(DJPr)
3756	S30	4-12	1953	Thu	HCLF 61HZh ZBIL L7O5 V'Z' NLCE V2MZ SB7Z 8MUO TUZR	USB	(DJPr)
3756	S30	6-12	1514	Sat	8S1Shch 81 929 LYeNSMAN 5719 5573	USB	(DJPr)
5448	S30	8-12	0942	Mon	8S1Shch 22 844 TARITAU 0025 2781	USB	(DJPr)
3756	S30	9-12	1912	Tue	7VNShch Zh7NZh YMA5 VHT3 AGDT 'U1B OSOG BO6C F56Shch 9GSA	USB	(DJPr)
3756	S30	10-12	1424	Wed	8S1Shch 68 721 GYeOGYeNIYa 7303 2803	USB	(DJPr)
3756	S30	10-12	1545	Wed	8S1Shch 75 530 HLORTOLUOL 2727 2494	USB	(DJPr)
3756	S30	10-12	1629	Wed	8S1Shch 38 233 VOTRA 9577 0799	USB	(DJPr)
3756	S30	10-12	1642	Wed	8S1Shch 63 848 ROTON 5536 6753	USB	(DJPr)
3756	S30	10-12	1730	Wed	8S1Shch 47 484 PORKA 1544 5495 STIRATOR 9342 0963	USB	(DJPr)
3756	S30	10-12	1906	Wed	LI27 V2MZ SB7Z 'O6P Y8MV 6I2Zh 8CShch' 27Shch' N1DU 53OB	USB	(DJPr)
3756	S30	11-12	1629	Thu	8S1Shch 38 748 NAPORNIK 5196 4061	USB	(DJPr)
3756	S30	11-12	1741	Thu	C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh	USB	(DJPr)
3756	S30	16-12	1731	Tue	F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS	USB	(DJPr)
5448	S30	18-12	0545	Thu	8S1Shch 32 939 MYeDPUNKT 5908 4415	USB	(Arg)
3756	S30	19-12	0259	Fri	8S1Shch 94 720 ABYeCYeDARIJ 5166 1754	USB	(Arg)
3756	S30	19-12	2009	Fri	Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV DEAY JH'I	USB	(DJPr)
5448	S30	22-12	1349	Mon	8S1Shch 18 155 GYeLDRIYeC 6458 1712	USB	(Arg)
3756	S30	26-12	1833	Fri	8S1Shch 86 803 KUBANIK 9092 8976	USB	(Arg)
3756	S30	29-12	1416	Mon	8S1Shch 53 311 SOChYeL'NICA 2317 4316	USB	(DJPr)
3756	S30	29-12	1434	Mon	8S1Shch 06 538 EFALON 5326 3850	USB	(DJPr)
3756	S30	30-12	0523	Tue	TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ	USB	(DJPr)
3756	S30	30-12	1438	Tue	SB7Z 'O6P Y8MV 6I2Zh 8CShch' 27Shch' N1DU 53OB 78MV DEAY	USB	(DJPr)
3828	S32	2-12	1441	Tue	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(DJPr)
3828	S32	3-12	1959	Wed	ROSA-64 DZhiGIT-46 OTPOR-89 LOGIKA-05 YaHTA-94 FONTAN-34	USB	(DJPr)
5473	S32	4-12	1318	Thu	ALFA-45 01 933 DIYeTADAN 5036 8967	USB	(DJPr)
3828	S32	4-12	1525	Thu	ALFA-45 42 237 MYeDIUNIZ 9984 6265	USB	(DJPr)
3828	S32	4-12	1700	Thu	ALFA-45 78 407 KOKVIMBIT 7415 4483	USB	(DJPr)
3828	S32	4-12	1837	Thu	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39	USB	(DJPr)
3828	S32	5-12	2103	Fri	SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27	USB	(DJPr)
5473	S32	8-12	1220	Mon	SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27	USB	(DJPr)
3828	S32	8-12	1512	Mon	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(DJPr)
3828	S32	9-12	1715	Tue	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39	USB	(DJPr)
3828	S32	9-12	2000	Tue	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(DJPr)
3828	S32	10-12	1428	Wed	ALFA-45 08 539 HOLOKSIN 5243 7178	USB	(DJPr)
3828	S32	10-12	1549	Wed	ALFA-45 79 318 GELDRIYeC 1678 3501	USB	(DJPr)
3828	S32	10-12	1634	Wed	ALFA-45 33 009 STYDLIVYeC 5236 2454	USB	(DJPr)
3828	S32	10-12	1645	Wed	ALFA-45 04 054 KOZONOK 2784 3646	USB	(DJPr)
3828	S32	10-12	1731	Wed	ALFA-45 11 579 78 401 YaSKOLKA 6552 9827	USB	(DJPr)
3828	S32	10-12	1734	Wed	ALFA-45 13 299 OTRYePKI 7229 3546	USB	(DJPr)
3828	S32	10-12	1851	Wed	ALFA-45 57 827 24 141 FLIK 0239 2384	USB	(DJPr)
3828	S32	10-12	1905	Wed	ALFA-45 10 810 59 855 KINOPLYeNKA 1331 6848	USB	(DJPr)
3828	S32	10-12	1921	Wed	ALFA-45 64 320 28 115 POROShOK 0559 8406	USB	(DJPr)
3828	S32	11-12	1412	Thu	ROSA-64 DZhiGIT-46 OTPOR-89 LOGIKA-05 YaHTA-94 FONTAN-34	USB	(DJPr)
3828	S32	11-12	1635	Thu	ALFA-45 93 360 SKVORCOVYJ 1883 8321	USB	(DJPr)
3828	S32	16-12	2007	Tue	PYeNZA-07 KURGAN-40 DUBLYoR-68 SLUZhBA-32 KATYeNIS-25 VAZhNYJ-85	USB	(DJPr)
3828	S32	19-12	0303	Fri	ALFA-45 52 818 MOTOVAGON 9317 8029	USB	(DJPr)
3828	S32	19-12	2025	Fri	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 ROSA-64 DZhiGIT-46 OTPOR-89 LOGIKA-05 YaHTA-94 FONTAN-34	USB	(DJPr)
5473	S32	22-12	1355	Mon	ALFA-45 97 394 ARYS 2019 7477	USB	(Arg)
3828	S32	23-12	1958	Tue	ROSA-64 DZhiGIT-46 OTPOR-89 LOGIKA-05 YaHTA-94 FONTAN-34	USB	(DJPr)
3828	S32	26-12	1850	Fri	ALFA-45 27 110 VOZZYVANIYe 0231 7413	USB	(DJPr)
3828	S32	29-12	1423	Mon	ALFA-45 68 082 HVOJINYJ 6376 9587	USB	(DJPr)
3828	S32	29-12	1439	Mon	ALFA-45 55 488 PIANLAV 1135 9540	USB	(DJPr)
3828	S32	29-12	1926	Mon	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(DJPr)
3580	UM01	2-12	1723	Tue	CQ M 13	CW	(JPL-Sib)
3580	UM01	2-12	1942	Tue	CQ M 13	CW	(JPL-Sib)
3580	UM01	2-12	2017	Tue	CQ M 12	CW	(JPL-Sib)

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3580	UM01	3-12	0036	Wed	CQ M 12	CW	(JPL-Sib)
3580	UM01	3-12	1145	Wed	CQ M 8	CW	(JPL-Sib)
3580	UM01	3-12	2256	Wed	CQ M 6	CW	(JPL-Sib)
3580	UM01	4-12	1243	Thu	CQ M 10	CW	(JPL-Sib)
3580	UM01	4-12	1818	Thu	CQ M 13	CW	(JPL-Sib)
3580	UM01	5-12	0337	Fri	CQ M 17 (ContÆd ù 0337z)	CW	(JPL-Sib)
3580	UM01	5-12	1749	Fri	CQ M 13 (ContÆd ù 1749z)	CW	(JPL-Sib)
3580	UM01	6-12	1018	Sat	CQ M 8	CW	(JPL-Sib)
3580	UM01	6-12	1454	Sat	CQ M 8	CW	(JPL-Sib)
3580	UM01	6-12	1840	Sat	CQ M 8	CW	(JPL-Sib)
3580	UM01	7-12	0946	Sun	CQ M 8	CW	(JPL-Sib)
3580	UM01	13-12	0128	Sat	CQ M 12	CW	(JPL-Sib)
3580	UM01	15-12	1014	Mon	CQ M 12	CW	(JPL-Sib)
3580	UM01	15-12	1934	Mon	CQ M 13	CW	(JPL-Sib)
3580	UM01	16-12	1824	Tue	CQ M 10	CW	(JPL-Sib)
3850	UM01	17-12	1727	Wed	CQ M 8	CW	(JPL-Sib)
3580	UM01	24-12	1602	Wed	CQ M 8	CW	(JPL-Sib)
3580	UM01	25-12	1827	Thu	CQ M 1	CW	(JPL-Sib)
3580	UM01	30-12	0154	Tue	CQ M 22	CW	(JPL-Sib)
3580	UM01	30-12	2259	Tue	CQ M 11	CW	(JPL-Sib)
3809	UM10	2-12	1736	Tue	Unid 10-mins net: ZJL4	CW	(JPL-Sib)
3314	UM10	2-12	2015	Tue	Unid 10-mins net: OUCH	CW	(JPL-Sib)
3580	UM10	10-12	0215	Wed	CQ M 8	CW	(JPL-Sib)
3580	UM10	10-12	0936	Wed	CQ M 8	CW	(JPL-Sib)
3580	UM10	10-12	1812	Wed	CQ M 8	CW	(JPL-Sib)
3696	UM10	10-12	1854	Wed	Unid 10-min station:D6AN	CW	(JPL-Sib)
3580	UM10	10-12	2211	Wed	CQ M 9	CW	(JPL-Sib)
3860	UM10	20-12	1455	Sat	Unid 10-mins net: KTR4	CW	(JPL-Sib)
3695	UM10	20-12	1456	Sat	Unid 10-mins net: D6AN	CW	(JPL-Sib)
3695	UM10	20-12	1521	Sat	Unid 10-mins net: D6AN	CW	(JPL-Sib)
3236	UM10	24-12	1557	Wed	D6AN	CW	(JPL-Sib)
16037	V07	7-12	0100	Sun	661 661 661 000	USB	(Dan)
14637	V07	7-12	0120	Sun	661 661 661 000	USB	(Dan)
16037	V07	14-12	0100	Sun	661 661 661 1 847 59 57507 74992 23794 000 000	USB	(Dan)
14637	V07	14-12	0120	Sun	661 661 661 1 847 59 57507 74992 23794 000 000	USB	(Dan)
12137	V07	14-12	0140	Sun	661 661 661 1 847 59 57507 74992 23794 000 000	USB	(Dan)
16037	V07	21-12	0100	Sun	661 661 661 000	USB	(Dan)
14637	V07	21-12	0120	Sun	661 661 661 000	USB	(Dan)
16037	V07	28-12	0100	Sun	661 661 661 1 428 71 48133 40300 79135 ... 12945 09081 07783 000 000	USB	(Dan)
14637	V07	28-12	0120	Sun	661 661 661 1 428 71 48133 40300 79135 ... 12945 09081 07783 000 000	USB	(Dan)
12137	V07	28-12	0140	Sun	661 661 661 1 428 71 48133 40300 79135 ... 12945 09081 07783 000 000	USB	(Dan)
5637	V21	10-12	0330	Wed	Cuban Babbler singing numbers 31 23 34 34 900 42 466 22 32 32 etc.	USB	(BW3)
5637	V21	14-12	1430	Sun	Cuban Babbler	USB	(AAFL)
5637	V21	19-12	1400	Fri	Cuban Babbler	USB	(AAFL)
5637	V21	30-12	1408	Tue	Cuban Babbler	USB	(CS)
9054	V26	29-12	0956	Mon	i.p.	USB	(NC)
5471	VC01	28-12	2223	Sun	Chinese Robot	USB	(NC)
14172	VC03	5-12	1224	Fri	425 doing comms checks with 462 and 465	USB	(MCO)
10213	X06	11-12	1540	Thu	Mazielka. Sequence: 263145	USB	(GHn)
16116	X06	12-12	1415	Fri	Mazielka. Sequence: 215346	USB	(AAI)
16116	X06	12-12	1415	Fri	Mazielka. Sequence: 215346	USB	(AAI)
15710	X06	14-12	1136	Sun	Mazielka. Sequence: 261453	USB	(Danix)
18575	X06	18-12	1239	Thu	Mazielka. Sequence: 352416	USB	(AB)
13951	X06	18-12	1245	Thu	Mazielka. Sequence 352416	USB	(AB/Eric)
14595	X06	21-12	1314	Sun	Mazielka. Sequence: 452163	USB	(MCO)
17463	X06	22-12	1203	Mon	Mazielka. Sequence: 256134	USB	(tING)
17471	X06	22-12	1330	Mon	Mazielka. Sequence: 216354	USB	(AAI)
16154	X06	25-12	0855	Thu	Mazielka. Sequence 153624	USB	(AAI)
16154	X06	25-12	0855	Thu	Mazielka. Sequence: 153624	USB	(AAI)
11561	X06	25-12	1607	Thu	Mazielka. Sequence: 263145	USB	(Danix)
11125	X06	25-12	1609	Thu	Mazielka. Sequence: 216354	USB	(Danix)

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9351	X06	25-12	1616	Thu	Mazielka. Sequence: 216354	USB	(Danix)
10535	X06	25-12	1618	Thu	Mazielka. Sequence: 564213	USB	(Danix)
8170	X06	28-12	1735	Sun	Mazielka. Sequence: 145632	USB	(AAI)
14650	X06	29-12	1231	Mon	Mazielka. Sequence: 215346	USB	(MCO)
18660	X06	31-12	1220	Wed	Mazielka. Sequence: 621543	USB	(Danix)
12207	X06	31-12	1500	Wed	Mazielka. Sequence: 215346	USB	(Danix)
13441	X06c	25-12	1558	Thu	Mazielka. Sequence: 123456	USB	(Danix)
9127	X06c	25-12	1613	Thu	Mazielka. Sequence: 123456	USB	(Danix)
7756	XPA	3-12	0700	Wed	msg	MFSK-20/10Bd	(HFD)
9056	XPA	3-12	0720	Wed	msg	MFSK-20/10Bd	(HFD)
10656	XPA	3-12	0740	Wed	msg	MFSK-20/10Bd	(HFD)
8164	XPA	4-12	1900	Thu	msg	MFSK-20/10Bd	(HFD)
7364	XPA	4-12	1920	Thu	msg	MFSK-20/10Bd	(HFD)
5864	XPA	4-12	1940	Thu	msg	MFSK-20/10Bd	(HFD)
7756	XPA	13-12	0700	Sat	706 706 706 1 06323 00231 27595 ... 06958 77017 44303	MFSK-20/10Bd	(AB)
9056	XPA	13-12	0720	Sat	706 706 706 1 06323 00231 27595 ... 06958 77017 44303	MFSK-20/10Bd	(AB)
10656	XPA	13-12	0740	Sat	706 706 706 1 06323 00231 27595 ... 06958 77017 44303	MFSK-20/10Bd	(AB)
9056	XPA	17-12	0720	Wed	706 706 706 000 06211 00001 00000 10140	MFSK-20/10Bd	(AB)
10656	XPA	17-12	0740	Wed	706 706 706 000 06211 00001 00000 10140	MFSK-20/10Bd	(AB)
8164	XPA	23-12	1900	Tue	138 1. ...55 08290 00201 08961 91326 9493 ... 24710 13480 08326 67097 29838 29282 0 ...	MFSK-20/10Bd	(MPJ)
7756	XPA	24-12	0700	Wed	706 706 706 1 05583 00215 40320 ... 17256 91602 23572	MFSK-20/10Bd	(AB)
10646	XPA	27-12	0740	Sat	706 706 706 1 05583 00215 40320 ... 17256 91602 23572	MFSK-20/10Bd	(AB)
7756	XPA	31-12	0700	Wed	706 706 706 000 04196 00001 00000 10140	MFSK-20/10Bd	(AB)
9056	XPA	31-12	0720	Wed	706 706 706 000 04196 00001 00000 10140	MFSK-20/10Bd	(AB)
10656	XPA	31-12	0740	Wed	706 706 706 000 04196 00001 00000 10140	MFSK-20/10Bd	(AB)
14538	XPA2	2-12	1300	Tue	msg	MFSK-16/20Bd	(HFD)
14538	XPA2	2-12	1300	Tue	06337 00001 00000 00030	MFSK-16/20Bd	(AB/MPJ)
13538	XPA2	2-12	1320	Tue	msg	MFSK-16/20Bd	(HFD)
13538	XPA2	2-12	1320	Tue	06337 00001 00000 00030	MFSK-16/20Bd	(AB)
12138	XPA2	2-12	1340	Tue	msg	MFSK-16/20Bd	(HFD)
12138	XPA2	2-12	1340	Tue	06337 00001 00000 00030	MFSK-16/20Bd	(AB/MPJ)
15967	XPA2	5-12	1400	Fri	08652 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
13884	XPA2	5-12	1420	Fri	08652 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
12217	XPA2	5-12	1440	Fri	08652 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
15967	XPA2	6-12	1400	Sat	msg	MFSK-16/20Bd	(HFD)
13884	XPA2	6-12	1420	Sat	msg	MFSK-16/20Bd	(HFD)
13884	XPA2	6-12	1421	Sat	i.p.	MFSK-16/20Bd	(VH)
12217	XPA2	6-12	1440	Sat	msg	MFSK-16/20Bd	(HFD)
15861	XPA2	8-12	0800	Mon	msg	MFSK-16/20Bd	(HFD)
14761	XPA2	8-12	0820	Mon	msg	MFSK-16/20Bd	(HFD)
13561	XPA2	8-12	0840	Mon	msg	MFSK-16/20Bd	(HFD)
13884	XPA2	12-12	1400	Fri	01947 00085 22015 ... 16176 87149 01650	MFSK-16/20Bd	(AB/VH)
15967	XPA2	12-12	1400	Fri	01947 00085 22015 ... 16176 87149 01650	MFSK-16/20Bd	(AB/CS/VH)
12217	XPA2	12-12	1400	Fri	01947 00085 22015 ... 16176 87149 01650	MFSK-16/20Bd	(AB/VH)
14538	XPA2	14-12	1300	Sun	01515 00001 00000 10140	MFSK-16/20Bd	(AB/AAI)
13538	XPA2	14-12	1320	Sun	01515 00001 00000 10140	MFSK-16/20Bd	(AB)
14583	XPA2	16-12	1300	Tue	06762 00001 00000 10140	MFSK-16/20Bd	(AB/AAI)
13538	XPA2	16-12	1320	Tue	06762 00001 00000 10140	MFSK-16/20Bd	(AB)
12138	XPA2	16-12	1340	Tue	06762 00001 00000 10140	MFSK-16/20Bd	(AB)
15861	XPA2	17-12	0800	Wed	04715 00001 00000 10140	MFSK-16/20Bd	(AB)
14761	XPA2	17-12	0820	Wed	04715 00001 00000 10140	MFSK-16/20Bd	(AB)
13561	XPA2	17-12	0840	Wed	04715 00001 00000 10140	MFSK-16/20Bd	(AB)
15967	XPA2	19-12	1400	Fri	02293 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
13884	XPA2	19-12	1420	Fri	02293 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
12217	XPA2	19-12	1440	Fri	02293 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
15967	XPA2	20-12	1400	Sat	08065 00001 00000 10140	MFSK-16/20Bd	(AAI)
14538	XPA2	21-12	1300	Sun	01189 00093 43982 ... 90756 58044 26600	MFSK-16/20Bd	(AB/MPJ)
13538	XPA2	21-12	1320	Sun	01189 00093 43982 ... 90756 58044 26600	MFSK-16/20Bd	(AB/MPJ)
12138	XPA2	21-12	1340	Sun	01189 00093 43982 ... 90756 58044 26600	MFSK-16/20Bd	(AB/MPJ)
15851	XPA2	22-12	0800	Mon	01477 00001 00000 10140	MFSK-26/20Bd	(AB)

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14761	XPA2	22-12	0820	Mon	01477 00001 00000 10140	MFSK-26/20Bd	(AB)
13561	XPA2	22-12	0840	Mon	01477 00001 00000 10140	MFSK-26/20Bd	(AB)
14538	XPA2	23-12	1300	Tue	01189 00093 43982 ... 90756 58044 26600	MFSK-16/20Bd	(AB)
13538	XPA2	23-12	1320	Tue	01189 00093 43982 ... 90756 58044 26600	MFSK-16/20Bd	(AB)
12138	XPA2	23-12	1340	Tue	01189 00093 43982 ... 90756 58044 26600	MFSK-16/20Bd	(AB/MPJ)
15967	XPA2	26-12	1400	Fri	00563 00077 26100 ... 50338 34917 36564	MFSK-16/20Bd	(MCO)
15967	XPA2	27-12	1400	Sat	09941 00001 00000 10140	MFSK-16/20Bd	(MPJ)
13884	XPA2	27-12	1420	Sat	09941 00001 00000 10140	MFSK-16/20Bd	(MPJ)
12217	XPA2	27-12	1440	Sat	09941 00001 00000 10140	MFSK-16/20Bd	(MPJ)
14538	XPA2	28-12	1300	Sun	03391 00085 91826 ... 11405 76732 75216	MFSK-16/20Bd	(AB)
13538	XPA2	28-12	1320	Sun	03391 00085 91826 ... 11405 76732 75216	MFSK-16/20Bd	(AB)
12138	XPA2	28-12	1340	Sun	03391 00085 91826 ... 11405 76732 75216	MFSK-16/20Bd	(AB/MPJ)
15861	XPA2	29-12	0800	Mon	05695 00181 16069 ... 49426 39130 53504	MFSK-16/20Bd	(AB)
14761	XPA2	29-12	0800	Mon	05695 00181 16069 ... 49426 39130 53504	MFSK-16/20Bd	(AB)
13561	XPA2	29-12	0800	Mon	05695 00181 16069 ... 49426 39130 53504	MFSK-16/20Bd	(AB)
14538	XPA2	30-12	1300	Tue	03391 00085 91826 ... 11405 76732 75216	MFSK-16/20Bd	(AB)
13538	XPA2	30-12	1320	Tue	03391 00085 91826 ... 11405 76732 75216	MFSK-16/20Bd	(AB)
12138	XPA2	30-12	1340	Tue	03391 00085 91826 ... 11405 76732 75216	MFSK-16/20Bd	(AB)
15861	XPA2	31-12	0800	Wed	04492 00001 00000 10140	MFSK-16/20Bd	(AB)
14761	XPA2	31-12	0820	Wed	04492 00001 00000 10140	MFSK-16/20Bd	(AB)
13561	XPA2	31-12	0840	Wed	04492 00001 00000 10140	MFSK-16/20Bd	(AB)
8313	XSL	8-12	1750	Mon	Japanese slot machine	QPSK 1500	(Lio)
6446	XSL	8-12	1859	Mon	Japanese slot machine	QPSK 1500	(Lio)

CONTRIBUTORS

AAFL	Anthony Agnelli, FL, USA	JPL	JPL, Ontario, Canada
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197	Utility Roundup	Beacons PRV and QRP
197	Utility Roundup	Unid 10-mins net transcripts
197	Utility Roundup	Unid on 5770 kHz, transcript
197	Utility Roundup	Unid on 6358 kHz, transcript
197	Utility Roundup	Unid on 7810 kHz, transcript
197	Utility Roundup	Unid pip stations
197	Various modes	Chinese diplo
197	Various modes	Czech diplo
197	Various modes	Egyptian diplo
197	Various modes	HM01 logs, comments and transcripts
197	Various modes	M42 logs, transcripts
197	Various modes	M42a
197	Various modes	North Korean diplo
197	Various modes	X06 transcripts
197	Various modes	XPA transcripts
197	Various modes	XPA2 transcripts
197	Voice stations	E06 transcripts
197	Voice stations	E07 transcripts
197	Voice stations	E11a transcripts
197	Voice stations	E17z transcripts
197	Voice stations	E25 transcripts
197	Voice stations	G06 transcripts
197	Voice stations	G11 replaced by E11
197	Voice stations	S06 transcripts
197	Voice stations	S11a transcripts
197	Voice stations	S28 transcripts
197	Voice stations	S30 transcripts and "The Pip - How it Started"
197	Voice stations	S32 transcripts
197	Voice stations	V07 logs and transcripts
197	Voice stations	V13 schedules
197	Voice stations	V26
198	Contributors	Contributors
198	General	New designators: M901, E907b, M912b, M912c, S906g
198	Logs	Logs section
198	Military stations	M32, M32a, M32b, M32c transcripts
198	Military stations	RAv, RMv, RNAv transcripts
198	Morse stations	M01, M01a transcripts

Issue	Subject	Item
198	Morse stations	M08a logs and schedules
198	Morse stations	M14 logs and transcripts
198	Morse stations	M21
198	Morse stations	M24
198	Morse stations	M51
198	Morse stations	M89 strings, voice message and transcripts
198	Morse stations	M901 update
198	Morse stations	M912b transcripts
198	Morse stations	M912c transcripts
198	Morse stations	MX
198	Morse stations	XM
198	Pictures	S05 OLX QSL card
198	Utility Roundup	Beacons
198	Utility Roundup	EAMs
198	Utility Roundup	UM01 CQ station
198	Utility Roundup	UM10 10-mins net transcripts
198	Utility Roundup	Unid on 7713, 3799, 8173, 4769 kHz, transcripts
198	Various modes	Chinese diplo
198	Various modes	Czech diplo
198	Various modes	Egyptian diplo
198	Various modes	HM01 logs, schedules and transcripts
198	Various modes	M42 logs, transcripts
198	Various modes	M42a
198	Various modes	North Korean diplo
198	Various modes	X06 transcripts
198	Various modes	XPA transcripts
198	Various modes	XPA2 transcripts
198	Voice stations	E06 transcripts
198	Voice stations	E07 transcripts
198	Voice stations	E11a transcripts
198	Voice stations	E25 transcripts
198	Voice stations	E907b transcripts
198	Voice stations	G06 transcripts
198	Voice stations	S05 OLX historic info
198	Voice stations	S06 transcripts
198	Voice stations	S06s transcripts
198	Voice stations	S11a transcripts
198	Voice stations	S25 transcripts
198	Voice stations	S28 transcripts
198	Voice stations	S30 transcripts
198	Voice stations	S32 transcripts
198	Voice stations	S6930 transcripts
198	Voice stations	S906g transcripts
198	Voice stations	V07 logs, transcripts and schedules
198	Voice stations	V13 schedules
198	Voice stations	V24 schedules
198	Voice stations	V30
198	Voice stations	VC01 frequencies
198	Voice stations	VC03
199	Contributors	Contributors

Issue	Subject	Item
199	Logs	Logs section
199	Military stations	M32, M32a, M32b, M32c transcripts
199	Military stations	RAv, RMv, RNAv transcripts
199	Morse stations	M01 transcripts
199	Morse stations	M03 transcripts
199	Morse stations	M08a logs and schedules
199	Morse stations	M12 transcripts
199	Morse stations	M41 transcripts
199	Morse stations	M51 transcripts
199	Morse stations	M89 strings, voice message and transcripts
199	Morse stations	MX
199	Morse stations	UM01 CQ station
199	Morse stations	UM10 transcripts
199	Pictures	DP01 sonogram
199	Pictures	Russian RP-6 Direction Finder
199	Pictures	X06 and MFSK11 sonograms
199	Utility Roundup	EAMs
199	Utility Roundup	Unid on 3614, 8131, 4325, 4870 kHz, transcripts
199	Various modes	Czech diplo
199	Various modes	DP01 logs
199	Various modes	Egyptian diplo
199	Various modes	HM01 schedules
199	Various modes	M42 logs, transcripts
199	Various modes	North Korean diplo
199	Various modes	Sudanese diplo
199	Various modes	X06 transcripts
199	Various modes	XPA transcripts
199	Various modes	XPA2 transcripts
199	Voice stations	E06 transcripts
199	Voice stations	E07 / E07a transcripts
199	Voice stations	E11a transcripts
199	Voice stations	E17z transcripts
199	Voice stations	G06 transcripts
199	Voice stations	S06 transcripts
199	Voice stations	S06s transcripts
199	Voice stations	S11a transcripts
199	Voice stations	S28 transcripts
199	Voice stations	S30 transcripts
199	Voice stations	S32 transcripts
199	Voice stations	S6930 transcripts
199	Voice stations	V13 schedules
199	Voice stations	V30
199	Voice stations	VC01 frequencies
200	Contributors	Contributors
200	General	N&O Jubilee edition
200	Logs	Logs section
200	Military stations	M32, M32a, M32b, M32c transcripts
200	Military stations	RAv, RNAv transcripts
200	Morse stations	M01 transcripts
200	Morse stations	M12 transcripts

Issue	Subject	Item
200	Morse stations	M14 transcripts
200	Morse stations	M21
200	Morse stations	M89 strings, voice message and transcripts
200	Morse stations	MX
200	Morse stations	UM01 CQ station
200	Morse stations	UM10 transcripts
200	Pictures	Kerro Massiv (5 pictures) and antenna diagram
200	Pictures	Leningrad Military District
200	Pictures	Panasonic DR22, WUN newsletter
200	Utility Roundup	Armenian Air Defense, info, logs, transcripts
200	Utility Roundup	EAMs
200	Utility Roundup	Unid on 3828.4, 4061 kHz, transcripts
200	Various modes	Egyptian diplo
200	Various modes	M42 logs, transcripts
200	Various modes	North Korean diplo
200	Various modes	X06 transcripts
200	Various modes	XPA transcripts
200	Various modes	XPA2 transcripts
200	Voice stations	E07 / E07a transcripts
200	Voice stations	E11a transcripts
200	Voice stations	G02 - Polish intelligence during the Cold War -part 2-
200	Voice stations	S06 transcripts
200	Voice stations	S06s transcripts
200	Voice stations	S11a transcripts
200	Voice stations	S25 transcripts
200	Voice stations	S28 transcripts
200	Voice stations	S30 transcripts
200	Voice stations	V07
200	Voice stations	V13 schedules
200	Voice stations	VC01 frequencies
200	Voice stations	VC03 logs and transcripts
201	Contributors	Contributors
201	Intelligence	Agenturni-Terminologie
201	Intelligence	List of Soviet COMINT and SIGINT posts in the late 70's
201	Intelligence	SNB "BRIGITA" docs
201	Logs	Logs section
201	Military stations	M32, M32a, M32b, M32c transcripts
201	Morse stations	M01, M01b transcripts
201	Morse stations	M03 transcripts
201	Morse stations	M08a logs and schedules
201	Morse stations	M12 transcripts
201	Morse stations	M14 transcript
201	Morse stations	M21 transcripts
201	Morse stations	M89 strings and transcripts
201	Morse stations	MC03 transcripts
201	Morse stations	MX
201	Morse stations	UM01 CQ station
201	Morse stations	UM10 transcripts
201	Pictures	"Agenturni-terminologie" cover
201	Pictures	Beacon "■" sonogram

Issue	Subject	Item
201	Pictures	German Agentradio SE 99/10
201	Pictures	SNB "BRIGITA" docs
201	Pictures	SNB patches
201	Pictures	SNB transmitter building
201	Utility Roundup	Armenian Air Defense, info, logs, transcripts
201	Utility Roundup	EAMs
201	Utility Roundup	Unid on 6503, 7550 kHz, transcripts
201	Various modes	Chinese diplo
201	Various modes	HM01 logs, transcripts, schedules
201	Various modes	M42 logs, transcripts
201	Various modes	XPA transcripts
201	Various modes	XPA2 transcripts
201	Voice stations	E06 transcripts
201	Voice stations	E07 / E07a transcripts
201	Voice stations	E11a transcripts
201	Voice stations	E17z transcript
201	Voice stations	G05 Swedish Rhapsody comments
201	Voice stations	G06 transcript
201	Voice stations	S06 transcripts
201	Voice stations	S06s transcripts
201	Voice stations	S11a transcripts
201	Voice stations	S25 transcripts
201	Voice stations	S28 transcripts
201	Voice stations	S30 transcripts
201	Voice stations	S32 transcripts
201	Voice stations	V02a unscheduled transmissions
201	Voice stations	V07 transcripts
201	Voice stations	V13 schedules
201	Voice stations	VC01 frequencies
202	Contributors	Contributors
202	General	e-Book titles
202	General	Nationale Volksarmee docs
202	General	Obituaries: Fritz N ³ sser and Glenn Valenta
202	Intelligence	Cuba Agrees to Return Lourdes Intelligence Center to Russia
202	Logs	Logs section
202	Military stations	M32, M32a, M32b transcripts
202	Morse stations	M01, M01b transcripts
202	Morse stations	M03 transcripts
202	Morse stations	M08a logs and schedules
202	Morse stations	M12 transcripts
202	Morse stations	M14 transcript
202	Morse stations	M21 transcripts
202	Morse stations	M22 transcript
202	Morse stations	M23 transcript
202	Morse stations	M24 transcript
202	Morse stations	M51 transcript
202	Morse stations	M89 strings and transcripts
202	Morse stations	M97
202	Morse stations	MC03 transcripts
202	Morse stations	MX

Issue	Subject	Item
202	Morse stations	UM01 off the air
202	Morse stations	UM10 transcripts
202	Pictures	Beacon "■" sonogram
202	Pictures	Ehrenparade
202	Pictures	Greek intelligence SIGINT station at Halkoutsí
202	Pictures	Lourdes facility
202	Pictures	Parolen- und Gespräch tabelle des diensthabenden funkers
202	Pictures	Sonogram of XPA MFSK-20/10Bd
202	Pictures	Various books
202	Pictures	Warrenton Training Center
202	Utility Roundup	Armenian Air Defense, info, logs, transcripts
202	Utility Roundup	EAMs
202	Utility Roundup	Pirate PPKD
202	Various modes	HM01 logs, transcripts, schedules
202	Various modes	M42 logs, transcripts
202	Various modes	X06 transcripts
202	Various modes	XPA transcripts
202	Various modes	XPA2 transcripts
202	Voice stations	E06 transcripts
202	Voice stations	E07 / E07a transcripts
202	Voice stations	E11a transcripts
202	Voice stations	E17z transcript
202	Voice stations	S06, S06c transcripts
202	Voice stations	S06s transcripts
202	Voice stations	S11a transcripts
202	Voice stations	S25 transcripts
202	Voice stations	S28 transcripts
202	Voice stations	S30 transcripts
202	Voice stations	S32 transcripts
202	Voice stations	V07 transcripts
202	Voice stations	V13 schedules
202	Voice stations	V30 update, logs and schedules
202	Voice stations	VC01 frequencies
203	Contributors	Contributors
203	General	Der Deutsche Freiheitssender 904
203	General	Der Deutsche Soldatensender 935
203	Logs	Logs section
203	Military stations	M32, M32a, M32b, M32c transcripts
203	Military stations	RMv, RADv, RNAv
203	Morse stations	M01, M01b transcripts
203	Morse stations	M03 transcripts
203	Morse stations	M08a logs and schedules
203	Morse stations	M12 transcripts
203	Morse stations	M14 transcript
203	Morse stations	M22 transcript
203	Morse stations	M24 transcript
203	Morse stations	M29 VDE
203	Morse stations	M51 transcript
203	Morse stations	M89 strings and transcripts
203	Morse stations	M97

Issue	Subject	Item
203	Morse stations	MC03 transcripts
203	Morse stations	MX
203	Morse stations	UM01 off the air
203	Morse stations	UM10 transcripts
203	Pictures	Polish transmitter sites
203	Pictures	Sonogram of E07's noisy transmitter
203	Utility Roundup	Armenian Air Defense
203	Utility Roundup	Beacon RO
203	Utility Roundup	EAMs
203	Utility Roundup	Unids on 6823, 8077, 5346, 6905, 8300, 8439 kHz
203	Various modes	Chinese diplo
203	Various modes	Egyptian diplo
203	Various modes	HM01 logs, transcripts and schedules
203	Various modes	M42 logs, transcripts
203	Various modes	North Korean diplo
203	Various modes	X06 transcripts
203	Various modes	XPA transcripts
203	Various modes	XPA2 transcripts
203	Voice stations	E06 transcripts
203	Voice stations	E07 / E07a transcripts
203	Voice stations	E11a transcripts
203	Voice stations	E17z transcript
203	Voice stations	E25a transcript
203	Voice stations	G06 transcripts
203	Voice stations	S06s transcripts
203	Voice stations	S11a transcripts
203	Voice stations	S28 transcripts
203	Voice stations	S30 transcripts
203	Voice stations	S32 transcripts
203	Voice stations	V02a unscheduled transmissions
203	Voice stations	V07 transcripts
203	Voice stations	V13 schedules
203	Voice stations	V24 update
203	Voice stations	VC01 frequencies and logs
204	Contributors	Contributors
204	General	VV99
204	Logs	Logs section
204	Military stations	M32, M32a, M32b, M32c transcripts
204	Military stations	RAv transcript
204	Morse stations	M01 transcripts
204	Morse stations	M03 transcripts
204	Morse stations	M12 transcripts
204	Morse stations	M14 transcript
204	Morse stations	M22 transcript
204	Morse stations	M24 transcript
204	Morse stations	M29 VDE
204	Morse stations	M51 transcript
204	Morse stations	M89 strings, voice message and transcripts
204	Morse stations	M97
204	Morse stations	MX

Issue	Subject	Item
204	Morse stations	UM01 off the air
204	Morse stations	UM10 transcripts
204	Pictures	Sonogram S06s harmonics
204	Pictures	Sonograms of the DQPSK/MFSK-16 mode
204	Utility Roundup	Armenian Air Defense
204	Utility Roundup	EAMs
204	Utility Roundup	Unid (Russian) DQPSK/MFSK-16 station
204	Various modes	DP01
204	Various modes	Egyptian diplo
204	Various modes	Indian diplo
204	Various modes	M42 logs, transcripts
204	Various modes	North Korean diplo
204	Various modes	X06 transcripts
204	Various modes	XPA transcripts
204	Various modes	XPA2 transcripts
204	Voice stations	E06 transcripts
204	Voice stations	E07 / E07a transcripts
204	Voice stations	E11a transcripts and 10-groups msg id's
204	Voice stations	E17z transcript
204	Voice stations	E25a transcript
204	Voice stations	E907b transcript
204	Voice stations	G06 transcripts
204	Voice stations	S06 transcript
204	Voice stations	S06s transcripts
204	Voice stations	S11a transcripts
204	Voice stations	S28 transcripts
204	Voice stations	S30 transcripts
204	Voice stations	S32 transcripts
204	Voice stations	V02a unscheduled transmissions
204	Voice stations	V07 transcripts
204	Voice stations	V13 schedules
204	Voice stations	V24 update and schedules
204	Voice stations	VC01 frequencies and logs
205	Contributors	Contributors
205	Logs	Logs section
205	Military stations	M32, M32a, M32b, M32c transcripts
205	Military stations	RMv transcript
205	Morse stations	M01, M01b transcripts
205	Morse stations	M03 transcripts
205	Morse stations	M12 transcripts
205	Morse stations	M14 transcript
205	Morse stations	M24 transcript
205	Morse stations	M51 transcript
205	Morse stations	M89 strings, voice message and transcripts
205	Morse stations	MX
205	Morse stations	UM01 off the air
205	Morse stations	UM10 transcripts
205	Pictures	Sonogram S06s harmonics
205	Pictures	Sonograms of the DQPSK/MFSK-16 mode
205	Utility Roundup	Armenian Air Defense

Issue	Subject	Item
205	Utility Roundup	EAMs
205	Utility Roundup	Unid (Russian) system testing
205	Various modes	Chinese diplo
205	Various modes	DP01
205	Various modes	Egyptian diplo
205	Various modes	ISI Pakistani Intelligence
205	Various modes	M42 transcripts
205	Various modes	North Korean diplo
205	Various modes	XPA transcripts
205	Various modes	XPA2 transcripts
205	Various modes	XSL logs
205	Voice stations	E06 / E06a transcripts
205	Voice stations	E07 transcripts
205	Voice stations	E11a transcripts and 10-groups msg id's
205	Voice stations	E17z transcript
205	Voice stations	E25 / E25a transcript
205	Voice stations	E907b transcript
205	Voice stations	G06 transcripts
205	Voice stations	S06 transcript
205	Voice stations	S11a transcripts
205	Voice stations	S25 transcripts
205	Voice stations	S28 transcripts
205	Voice stations	S30 transcripts
205	Voice stations	S32 transcripts
205	Voice stations	V07 transcripts
205	Voice stations	V13 schedules
205	Voice stations	V24 update and schedules
205	Voice stations	VC01 frequencies
206	Contributors	Contributors
206	Logs	Logs section
206	Military stations	M32, M32a, M32b, M32c transcripts
206	Military stations	RAv transcript
206	Morse stations	M01, M01a transcripts
206	Morse stations	M03 transcripts
206	Morse stations	M12 transcripts
206	Morse stations	M14 transcript
206	Morse stations	M21 transcript
206	Morse stations	M24 transcript
206	Morse stations	M89 strings, voice message and transcripts
206	Morse stations	MC03 transcripts
206	Morse stations	MX
206	Morse stations	UM01 off the air
206	Morse stations	UM10 transcripts
206	Pictures	Sonograms of the DQPSK/MFSK-16 mode
206	Pictures	X06 sonogram
206	Utility Roundup	Armenian Air Defense
206	Utility Roundup	EAMs
206	Utility Roundup	Unid stations on 5164 an 5087 kHz
206	Various modes	DP01
206	Various modes	Egyptian diplo

Issue	Subject	Item
206	Various modes	M42 transcripts
206	Various modes	North Korean diplo
206	Various modes	Polish Intelligence FSK transmissions
206	Various modes	X06 transcripts
206	Various modes	XPA transcripts
206	Various modes	XPA2 transcripts
206	Various modes	XSL logs
206	Voice stations	E06 transcripts
206	Voice stations	E07 / E07a transcripts
206	Voice stations	E11a transcripts
206	Voice stations	E17z live
206	Voice stations	G06 transcripts
206	Voice stations	S06 transcripts
206	Voice stations	S06s transcripts
206	Voice stations	S11a transcripts
206	Voice stations	S28 transcripts
206	Voice stations	S30 transcripts
206	Voice stations	S32 transcripts
206	Voice stations	V07 transcripts
206	Voice stations	V13 transcripts
206	Voice stations	V24 schedules
206	Voice stations	VC01 frequencies
207	Contributors	Contributors
207	General	N&O 2014 index
207	Intelligence	Intelligence news: Year in Review
207	Logs	Logs section
207	Military stations	M32, M32, M32b, M32c
207	Morse stations	M08a
207	Morse stations	M12 transcripts
207	Morse stations	M14 transcripts
207	Morse stations	M41 transcripts
207	Morse stations	M89 transcripts
207	Morse stations	MC03 transcripts
207	Morse stations	MX
207	Morse stations	UM01 transcripts
207	Morse stations	UM10 transcripts
207	Utility Roundup	Unid stations on 6984 and 6988 kHz "Nomer"
207	Various modes	Egyptian diplo
207	Various modes	M42 transcripts
207	Various modes	North Korean diplo
207	Various modes	Polish Intelligence. Logs,transcripts, schedules
207	Various modes	X06
207	Various modes	XPA transcripts
207	Various modes	XPA2 transcripts
207	Voice stations	E06 transcripts
207	Voice stations	E07 / E07a transcripts
207	Voice stations	E11a transcripts
207	Voice stations	E25 transcripts
207	Voice stations	S11a transcripts
207	Voice stations	S28transcripts

Issue	Subject	Item
207	Voice stations	S30 transcripts
207	Voice stations	S32 transcripts
207	Voice stations	V07 transcripts
207	Voice stations	V13 Schedules
207	Voice stations	V21 transcripts
207	Voice stations	VC01 frequencies + log

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Website: <http://www.udxf.nl>

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Go to the web interface <http://mailman.gth.net/mailman/listinfo/spooks> to subscribe. Fill in the form and follow the instructions that will be mailed to you.

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Forum: <http://www.hfunderground.com/board/>